

**Extract from Monthly Statistics of Mineral Production December 2010 issue.****State wise Average Value of minerals by grades****for which royalty is chargeable on ad valorem basis not linked to any international benchmark price****Month : December 2010**

State / Mineral / Grades	Avg. Value	State / Mineral / Grades	Avg. Value
<b>India</b>		<b>Fluorite (graded)</b>	Rs./t
<b>Bauxite</b>	Rs./t	Up to 30% CaF2	NA
Non-Metallurgical		30-70% CaF2	4038
Cement	183	70-85% CaF2	NA
Abrasive	241	Above 85% CaF2	NA
Refractory	331	<b>Garnet (abrasive)</b>	Rs./t 611
Others (U)	195	<b>Garnet (gem)</b>	Rs./kg NA
<b>Chromite</b>	Rs./t	<b>Graphite (r.o.m.)</b>	Rs./t
Lumps		Upto 40% fixed carbon (U)	438
Up to 40% Cr2O3	3784	40 - 80% fixed carbon (U)	NA
40 - 52% Cr2O3	NA	80% & above fixed carbon (U)	NA
Above 52% Cr2O3	NA	<b>Gypsum</b>	Rs./t 300
Fines		<b>Jasper</b>	Rs./t NR
Up to 40% Cr2O3	3583	<b>Kaolin (natural)</b>	Rs./t 175
40 - 52% Cr2O3	9138	<b>Kaolin (processed)</b>	Rs./t 1661
Above 52% Cr2O3	10701	<b>Kyanite</b>	Rs./t
Concentrates	9945	Up to 40% Al2O3	1186
<b>Iron Ore (total)</b>	Rs./t	Above 40% Al2O3	900
Lumps		<b>Sillimanite</b>	Rs./t 8914
Below 60% Fe	1347	<b>Laterite</b>	Rs./t
60 - 62% Fe	1708	Non-Metallurgical	
62 - 65% Fe	3209	Cement	121
65% Fe & above	3799	Abrasive	NA
Fines		Chemical	294
Below 62% Fe	1828	Refractory	294
62 - 65% Fe	1994	Others	NA
65% Fe & above	2645	<b>Magnesite</b>	Rs./t 1620
Concentrates	831	<b>Marl</b>	Rs./t NA
<b>Manganese Ore</b>	Rs./t	<b>Mica (crude)</b>	Rs./kg 33
MnO2	20745	<b>Mica (waste &amp; Scrap)</b>	Rs./kg NA
Up to 25% Mn	3051	<b>Perlite</b>	Rs./t NA
25 - 35% Mn	3054	<b>Pyrites</b>	Rs./t NA
35 - 46% Mn	7119	<b>Pyrophyllite</b>	Rs./t 198
Above 46% Mn	11387	<b>Pyroxenite</b>	Rs./t 495
<b>Agate</b>	Rs./t 500	<b>Quartz</b>	Rs./t 177
<b>Apatite</b>	Rs./t 2110	<b>Quartzite</b>	Rs./t 272
<b>Phosphorite</b>	Rs./t	<b>Silica Sand</b>	Rs./t 138
Up to 25% P2O5	260	<b>Sand (others)</b>	Rs./t NA
25 - 30% P2O5	1062	<b>Salt (rock)</b>	Rs./t 2779
Above 30% P2O5	4753	<b>Shale</b>	Rs./t 46
<b>Asbestos</b>	Rs./t	<b>Steatite</b>	Rs./t
Ambibole	NR	Insecticide (Filler) grade	296
<b>Ball Clay</b>	Rs./t 169	Other than insecticide (Filler) grade	826
<b>Barytes</b>	Rs./t	<b>Selenite</b>	Rs./t 850
White	488	<b>Vermiculite</b>	Rs./t 608
Off Colour	1223	<b>Wollastonite</b>	Rs./t 808
<b>Calcite</b>	Rs./t 311	<b>Aluminium (lme Price)*</b>	\$/mt 2351
<b>Chalk</b>	Rs./t 378	<b>Copper (lme Price)*</b>	\$/mt 9147
<b>Clay (others)</b>	Rs./t 102	<b>Lead (lme Price)*</b>	\$/mt 2413
<b>Corundum</b>	Rs./kg NA	<b>Nickel (lme Price)*</b>	\$/mt 24111
<b>Corundum (ruby)</b>	Rs./kg NA	<b>Tin (lme Price)*</b>	\$/mt 26163
<b>Diamond</b>	Rs./crt 7278	<b>Zinc (lme Price)*</b>	\$/mt 2281
<b>Diaspore</b>	Rs./t 943	<b>Silver (lme Price)*</b>	c/tr oz 2935
<b>Dunite</b>	Rs./t NA	<b>Gold (lme Price)*</b>	\$/tr oz 1391
<b>Felspar</b>	Rs./t 213	<b>Andhra Pradesh</b>	
<b>Fireclay</b>	Rs./t 180	<b>Iron Ore (total)</b>	Rs./t
<b>Felsite</b>	Rs./t 1484		

NA : Not Available      lme: London Metal Exchange      t : Tonne      mt : Metric Tonne  
(U) : Under Reference      lbm: London Bullion Market      c : Cents      \$ : Dollor      tr oz : Troy Ounce

\* : Average Value for December 2010, Source - MINERALS & METALS REVIEW, January 2011. Daily average prices has been taken for Gold & Silver. Data of Mn Ore for "Below 25% Mn" grade in Gujarat is under reference.

**Extract from Monthly Statistics of Mineral Production December 2010 issue.**

**State wise Average Value of minerals by grades  
for which royalty is chargeable on ad valorem basis not linked to any international benchmark price**

**Month : December 2010**

State / Mineral / Grades	Avg. Value	State / Mineral / Grades	Avg. Value
Lumps		62 - 65% Fe	3441
Below 60% Fe	337	65% Fe & above	4485
60 - 62% Fe	NA	Fines	
62 - 65% Fe	NA	Below 62% Fe	2865
Fines		62 - 65% Fe	3173
Below 62% Fe	277	65% Fe & above	3245
62 - 65% Fe	NA	<b>Clay (others)</b>	Rs./t NA
<b>Manganese Ore</b>	Rs./t	<b>Quartz</b>	Rs./t NR
MnO2	NA	<b>Steatite</b>	Rs./t
Up to 25% Mn	1312	Insecticide (Filler) grade	NA
25 - 35% Mn	1657	<b>Goa</b>	
35 - 46% Mn	2115	<b>Bauxite</b>	Rs./t
Above 46% Mn	NA	Non-Metallurgical	
<b>Apatite</b>	Rs./t 2110	Cement	NA
<b>Asbestos</b>	Rs./t	<b>Iron Ore (total)</b>	Rs./t
Ambhibole	NR	Lumps	
<b>Ball Clay</b>	Rs./t 156	Below 60% Fe	1687
<b>Barytes</b>	Rs./t	60 - 62% Fe	2366
White	NA	62 - 65% Fe	3416
Off Colour	1224	Fines	
<b>Clay (others)</b>	Rs./t 93	Below 62% Fe	2095
<b>Felspar</b>	Rs./t 260	62 - 65% Fe	3267
<b>Fireclay</b>	Rs./t 148	65% Fe & above	NA
<b>Garnet (abrasive)</b>	Rs./t 106	Concentrates	831
<b>Kaolin (natural)</b>	Rs./t 83	<b>Manganese Ore</b>	Rs./t
<b>Laterite</b>	Rs./t	MnO2	NA
Non-Metallurgical		Up to 25% Mn	NA
Cement	47	25 - 35% Mn	3600
Chemical	NA	35 - 46% Mn	NA
<b>Mica (crude)</b>	Rs./kg 33	Above 46% Mn	NA
<b>Mica (waste &amp; Scrap)</b>	Rs./kg NA	<b>Laterite</b>	Rs./t
<b>Pyrophyllite</b>	Rs./t NA	Non-Metallurgical	
<b>Quartz</b>	Rs./t 160	Cement	NA
<b>Quartzite</b>	Rs./t 150	<b>Gujarat</b>	
<b>Silica Sand</b>	Rs./t 54	<b>Bauxite</b>	Rs./t
<b>Sand (others)</b>	Rs./t NA	Non-Metallurgical	
<b>Shale</b>	Rs./t 46	Cement	182
<b>Steatite</b>	Rs./t	Abrasive	275
Insecticide (Filler) grade	210	Refractory	331
Other than insecticide (Filler) grade	684	Others (U)	306
<b>Vermiculite</b>	Rs./t 432	<b>Manganese Ore</b>	Rs./t
<b>Bihar</b>		Up to 25% Mn	NA
<b>Mica (crude)</b>	Rs./kg NA	25 - 35% Mn	NA
<b>Mica (waste &amp; Scrap)</b>	Rs./kg NA	<b>Agate</b>	Rs./t 500
<b>Pyrites</b>	Rs./t NA	<b>Ball Clay</b>	Rs./t NA
<b>Quartzite</b>	Rs./t 316	<b>Chalk</b>	Rs./t 378
<b>Steatite</b>	Rs./t	<b>Clay (others)</b>	Rs./t NA
Insecticide (Filler) grade	200	<b>Fireclay</b>	Rs./t 70
<b>Chhattisgarh</b>		<b>Fluorite (graded)</b>	Rs./t
<b>Bauxite</b>	Rs./t	Up to 30% CaF2	NA
Non-Metallurgical		<b>Gypsum</b>	Rs./t NA
Abrasive	221	<b>Kaolin (natural)</b>	Rs./t 136
Refractory	NA	<b>Kaolin (processed)</b>	Rs./t 1132
<b>Iron Ore (total)</b>	Rs./t	<b>Laterite</b>	Rs./t
Lumps		Non-Metallurgical	
Below 60% Fe	NA	Cement	NA
60 - 62% Fe	NA	Abrasive	NA

NA : Not Available      lme: London Metal Exchange      t : Tonne      mt : Metric Tonne  
(U) : Under Reference      lbm: London Bullion Market      c : Cents      \$ : Dollor      tr oz : Troy Ounce

\* : Average Value for December 2010, Source - MINERALS & METALS REVIEW, January 2011. Daily average prices has been taken for Gold & Silver. Data of Mn Ore for "Below 25% Mn" grade in Gujarat is under reference.

**Extract from Monthly Statistics of Mineral Production December 2010 issue.****State wise Average Value of minerals by grades**

for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : December 2010

State / Mineral / Grades	Avg. Value	State / Mineral / Grades	Avg. Value
Chemical	NA	Non-Metallurgical	
Others	NA	Cement	NR
<b>Marl</b>	Rs./t	<b>Chromite</b>	Rs./t
<b>Perlite</b>	Rs./t	Lumps	
<b>Quartz</b>	Rs./t	Up to 40% Cr2O3	4132
<b>Silica Sand</b>	Rs./t	40 - 52% Cr2O3	NA
<b>Steatite</b>	Rs./t	Fines	
Insecticide (Filler) grade	125	Up to 40% Cr2O3	NA
<b>Himachal Pradesh</b>		40 - 52% Cr2O3	NA
<b>Barytes</b>	Rs./t	Concentrates	NA
White	NA	<b>Iron Ore (total)</b>	Rs./t
Off Colour	NA	Lumps	
<b>Salt (rock)</b>	Rs./t	Below 60% Fe	1019
<b>Shale</b>	Rs./t	60 - 62% Fe	1631
<b>Jammu &amp; Kashmir</b>		62 - 65% Fe	2203
<b>Gypsum</b>	Rs./t	65% Fe & above	3055
<b>Jharkhand</b>		Fines	
<b>Bauxite</b>	Rs./t	Below 62% Fe	1252
Non-Metallurgical		62 - 65% Fe	2164
Cement	NA	65% Fe & above	3333
<b>Iron Ore (total)</b>	Rs./t	<b>Manganese Ore</b>	Rs./t
Lumps		MnO2	NA
Below 60% Fe	1509	Up to 25% Mn	1382
60 - 62% Fe	1830	25 - 35% Mn	1382
62 - 65% Fe	1830	35 - 46% Mn	2107
65% Fe & above	NA	Above 46% Mn	NA
Fines		<b>Clay (others)</b>	Rs./t
Below 62% Fe	830	<b>Dunite</b>	Rs./t
62 - 65% Fe	1215	<b>Felspar</b>	Rs./t
65% Fe & above	1616	<b>Fireclay</b>	Rs./t
<b>Manganese Ore</b>	Rs./t	<b>Felsite</b>	Rs./t
MnO2	16500	<b>Kaolin (natural)</b>	Rs./t
Up to 25% Mn	1500	<b>Kaolin (processed)</b>	Rs./t
25 - 35% Mn	1976	<b>Kyanite</b>	Rs./t
35 - 46% Mn	7051	Up to 40% Al2O3	NA
Above 46% Mn	7213	Above 40% Al2O3	NA
<b>Felspar</b>	Rs./t	<b>Laterite</b>	Rs./t
<b>Fireclay</b>	Rs./t	Non-Metallurgical	
<b>Graphite (r.o.m.)</b>	Rs./t	Cement	116
Upto 40% fixed carbon (U)	382	Chemical	294
<b>Kaolin (natural)</b>	Rs./t	Refractory	294
<b>Kaolin (processed)</b>	Rs./t	<b>Magnesite</b>	Rs./t
<b>Kyanite</b>	Rs./t	<b>Quartz</b>	Rs./t
Up to 40% Al2O3	1186	<b>Quartzite</b>	Rs./t
Above 40% Al2O3	NA	<b>Silica Sand</b>	Rs./t
<b>Laterite</b>	Rs./t	<b>Shale</b>	Rs./t
Non-Metallurgical		<b>Steatite</b>	Rs./t
Cement	NA	Insecticide (Filler) grade	NA
<b>Mica (crude)</b>	Rs./kg	<b>Kerala</b>	
<b>Mica (waste &amp; Scrap)</b>	Rs./kg	<b>Kaolin (natural)</b>	Rs./t
<b>Pyrophyllite</b>	Rs./t	<b>Kaolin (processed)</b>	Rs./t
<b>Pyroxenite</b>	Rs./t	<b>Sillimanite</b>	Rs./t
<b>Quartz</b>	Rs./t	<b>Laterite</b>	Rs./t
<b>Quartzite</b>	Rs./t	Non-Metallurgical	
<b>Silica Sand</b>	Rs./t	Cement	321
<b>Karnataka</b>		Chemical	NA
<b>Bauxite</b>	Rs./t	Others	NA
		<b>Silica Sand</b>	Rs./t
			788

NA : Not Available      lme: London Metal Exchange      t : Tonne      mt : Metric Tonne  
(U) : Under Reference      lbm: London Bullion Market      c : Cents      \$ : Dollor      tr oz : Troy Ounce

\* : Aaverage Value for December 2010, Source - MINERALS & METALS REVIEW, January 2011. Daily average prices has been taken for Gold & Silver. Data of Mn Ore for "Below 25% Mn" grade in Gujarat is under reference.

**Extract from Monthly Statistics of Mineral Production December 2010 issue.****State wise Average Value of minerals by grades**

for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : December 2010

State / Mineral / Grades	Avg. Value	State / Mineral / Grades	Avg. Value
<b>Madhya Pradesh</b>		<b>Corundum</b>	Rs./kg NA
<b>Bauxite</b>	Rs./t	<b>Fireclay</b>	Rs./t NA
Non-Metallurgical		<b>Fluorite (graded)</b>	Rs./t
Cement	190	Up to 30% CaF2	NA
<b>Iron Ore (total)</b>	Rs./t	30-70% CaF2	4382
Lumps		70-85% CaF2	NA
Below 60% Fe	844	Above 85% CaF2	NA
60 - 62% Fe	NA	<b>Kyanite</b>	Rs./t
Fines		Up to 40% Al2O3	NA
Below 62% Fe	429	Above 40% Al2O3	900
<b>Manganese Ore</b>	Rs./t	<b>Sillimanite</b>	Rs./t 925
MnO2	NA	<b>Laterite</b>	Rs./t
Up to 25% Mn	3255	Non-Metallurgical	
25 - 35% Mn	4247	Cement	NA
35 - 46% Mn	8231	Chemical	NA
Above 46% Mn	11122	<b>Pyrophyllite</b>	Rs./t 280
<b>Phosphorite</b>	Rs./t	<b>Quartz</b>	Rs./t 243
Up to 25% P2O5	531	<b>Quartzite</b>	Rs./t 250
25 - 30% P2O5	1062	<b>Silica Sand</b>	Rs./t 304
Above 30% P2O5	NA	<b>Sand (others)</b>	Rs./t NA
<b>Calcite</b>	Rs./t NR	<b>Shale</b>	Rs./t NA
<b>Clay (others)</b>	Rs./t NA	<b>Meghalaya</b>	
<b>Diamond</b>	Rs./crt 7278	<b>Shale</b>	Rs./t NA
<b>Diaspore</b>	Rs./t 448	<b>Orissa</b>	
<b>Fireclay</b>	Rs./t 119	<b>Chromite</b>	Rs./t
<b>Kaolin (natural)</b>	Rs./t 60	Lumps	
<b>Laterite</b>	Rs./t	Up to 40% Cr2O3	3732
Non-Metallurgical		40 - 52% Cr2O3	NA
Cement	51	Above 52% Cr2O3	NA
<b>Pyrophyllite</b>	Rs./t 210	Fines	
<b>Quartz</b>	Rs./t 80	Up to 40% Cr2O3	3583
<b>Shale</b>	Rs./t NA	40 - 52% Cr2O3	9138
<b>Steatite</b>	Rs./t	Above 52% Cr2O3	10701
Insecticide (Filler) grade	NA	Concentrates	9945
<b>Vermiculite</b>	Rs./t NA	<b>Iron Ore (total)</b>	Rs./t
<b>Maharashtra</b>		Lumps	
<b>Bauxite</b>	Rs./t	Below 60% Fe	1163
Non-Metallurgical		60 - 62% Fe	1607
Cement	NA	62 - 65% Fe	3782
Others (U)	169	65% Fe & above	3782
<b>Chromite</b>	Rs./t	Fines	
Lumps		Below 62% Fe	1824
Up to 40% Cr2O3	NA	62 - 65% Fe	1824
40 - 52% Cr2O3	NA	65% Fe & above	1824
<b>Iron Ore (total)</b>	Rs./t	<b>Manganese Ore</b>	Rs./t
Below 60% Fe	688	MnO2	22703
60 - 62% Fe	NA	Up to 25% Mn	3314
62 - 65% Fe	NA	25 - 35% Mn	5889
Fines		35 - 46% Mn	9817
Below 62% Fe	700	Above 46% Mn	17471
62 - 65% Fe	NA	<b>Corundum (ruby)</b>	Rs./kg NA
<b>Manganese Ore</b>	Rs./t	<b>Fireclay</b>	Rs./t NA
MnO2	18653	<b>Garnet (abrasive)</b>	Rs./t 3553
Up to 25% Mn	769	<b>Graphite (r.o.m.)</b>	Rs./t
25 - 35% Mn	4536	Upto 40% fixed carbon (U)	372
35 - 46% Mn	9189	40 - 80% fixed carbon (U)	NA
Above 46% Mn	11595	<b>Kaolin (natural)</b>	Rs./t NA
<b>Clay (others)</b>	Rs./t NA		

NA : Not Available lme: London Metal Exchange t : Tonne mt : Metric Tonne  
 (U) : Under Reference lbm: London Bullion Market c : Cents \$ : Dollor tr oz : Troy Ounce

\* : Average Value for December 2010, Source - MINERALS & METALS REVIEW, January 2011. Daily average prices has been taken for Gold & Silver. Data of Mn Ore for "Below 25% Mn" grade in Gujarat is under reference.

**Extract from Monthly Statistics of Mineral Production December 2010 issue.****State wise Average Value of minerals by grades**

for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : December 2010

State / Mineral / Grades	Avg. Value	State / Mineral / Grades	Avg. Value
<b>Kaolin (processed)</b>	Rs./t 805	<b>Tamil Nadu</b>	
<b>Sillimanite</b>	Rs./t 9735	<b>Ball Clay</b>	Rs./t NA
<b>Pyrophyllite</b>	Rs./t NA	<b>Dunite</b>	Rs./t NA
<b>Pyroxenite</b>	Rs./t 582	<b>Felspar</b>	Rs./t 301
<b>Quartz</b>	Rs./t NA	<b>Fireclay</b>	Rs./t NA
<b>Quartzite</b>	Rs./t 200	<b>Garnet (abrasive)</b>	Rs./t 602
<b>Silica Sand</b>	Rs./t NA	<b>Graphite (r.o.m.)</b>	Rs./t
<b>Steatite</b>	Rs./t	Upto 40% fixed carbon (U)	497
Insecticide (Filler) grade	NA	<b>Magnesite</b>	Rs./t 1903
Other than insecticide (Filler) grade	NA	<b>Marl</b>	Rs./t NA
<b>Rajasthan</b>		<b>Quartz</b>	Rs./t 1687
<b>Iron Ore (total)</b>	Rs./t	<b>Silica Sand</b>	Rs./t 893
Lumps		<b>Steatite</b>	Rs./t
Below 60% Fe	NA	Insecticide (Filler) grade	200
<b>Manganese Ore</b>	Rs./t	<b>Vermiculite</b>	Rs./t 2505
25 - 35% Mn	1500	<b>Uttar Pradesh</b>	
<b>Phosphorite</b>	Rs./t	<b>Diaspore</b>	Rs./t 1302
Up to 25% P2O5	251	<b>Pyrophyllite</b>	Rs./t 204
25 - 30% P2O5	NA	<b>Silica Sand</b>	Rs./t 185
Above 30% P2O5	4753	<b>Uttaranchal</b>	
<b>Ball Clay</b>	Rs./t 176	<b>Magnesite</b>	Rs./t 1161
<b>Barytes</b>	Rs./t	<b>Steatite</b>	Rs./t
White	488	Insecticide (Filler) grade	1149
Off Colour	366	Other than insecticide (Filler) grade	1149
<b>Calcite</b>	Rs./t 311	<b>West Bengal</b>	
<b>Clay (others)</b>	Rs./t 145	<b>Apatite</b>	Rs./t NA
<b>Felspar</b>	Rs./t 161	<b>Clay (others)</b>	Rs./t NA
<b>Fireclay</b>	Rs./t 210	<b>Felspar</b>	Rs./t 300
<b>Fluorite (graded)</b>	Rs./t	<b>Fireclay</b>	Rs./t 90
Up to 30% CaF2	NA	<b>Kaolin (natural)</b>	Rs./t 394
30-70% CaF2	2978	<b>Kaolin (processed)</b>	Rs./t 1100
70-85% CaF2	NA	<b>Quartz</b>	Rs./t 219
Above 85% CaF2	NA		
<b>Garnet (gem)</b>	Rs./kg NA		
<b>Gypsum</b>	Rs./t 300		
<b>Jasper</b>	Rs./t NR		
<b>Kaolin (natural)</b>	Rs./t 214		
<b>Kyanite</b>	Rs./t		
Up to 40% Al2O3	NA		
<b>Sillimanite</b>	Rs./t NA		
<b>Laterite</b>	Rs./t		
Non-Metallurgical			
Chemical	NA		
<b>Magnesite</b>	Rs./t NA		
<b>Mica (crude)</b>	Rs./kg NA		
<b>Mica (waste &amp; Scrap)</b>	Rs./kg NA		
<b>Pyrophyllite</b>	Rs./t NA		
<b>Quartz</b>	Rs./t 204		
<b>Quartzite</b>	Rs./t 150		
<b>Silica Sand</b>	Rs./t 300		
<b>Steatite</b>	Rs./t		
Insecticide (Filler) grade	167		
Other than insecticide (Filler) grade	772		
<b>Selenite</b>	Rs./t 850		
<b>Vermiculite</b>	Rs./t NA		
<b>Wollastonite</b>	Rs./t 808		

NA : Not Available lme: London Metal Exchange t : Tonne mt : Metric Tonne  
(U) : Under Reference lbm: London Bullion Market c : Cents \$ : Dollar tr oz : Troy Ounce

\* : Average Value for December 2010, Source - MINERALS & METALS REVIEW, January 2011. Daily average prices has been taken for Gold & Silver. Data of Mn Ore for "Below 25% Mn" grade in Gujarat is under reference.