



PWD NEWSLETTER

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Phek - 1

PMGSY ROADS IN MIZORAM

by Er. Lalhmasaa

PMGSY (Pradhan Mantri Gram Sadak Yojana) hi thingtlang khuate kawng hrang hranga an lo changkan theih nana motor kawngtha (All Weather Road)-a tlawhtir tumna programme a ni a. Kum 2000, August ni 15 khan India Prime Minister- in a puang a, December ni 25- ah he hna hi thawh tan a ni. He programme-ah hian khua mihring cheng (population) 500 chin (phairam tan) leh 250 chin (tlang ram tan) te chu kawng tha a tlawhtir vek tum a ni.

India ram pumah hian chutiang khua chu 1,71,110 a awm a , hemi tlawh nana kawng laih ngai chu 3,70,298 km a ni. Hemi atana senso tur chu Rs. 77,765.73 crore vela chhut a ni.

Mizoram-ah hian kum 1991 census atanga chhutin khaw tlawh tur 251 a awm a, kawng laih ngai chu 2618.50 km a ni.

PMGSY hna enkawl tur hian India Sawrkar chuan Ministry of Rural Development hnuai ah 'National Rural roads Development Agency (NRRDA)' a din a. Tin, State tinah State Rural roads Development Agency (SRRDA) din tura tih vek a ni bawk a. Mizoramah pawh PMGSY enkawl tur hian Mizoram Rural Roads Development Agency (MiRRDA) din a ni a. Chief Secretary chu Chairman a ni a, PWD Secretary chu Member Secretary a ni. PWD-in he hna hi a thawk a, Engineer-in-Chief office-ah Cell hran siam a ni.

PMGSY hna hi Mizoramah kum 2001 khan thawh tan a ni a. Proposal leh Estimate hi kum 1 zel atan siam thin a ni a, chutiang chuan Sanction thin a ni, chung chu Phase-I, Phase-II etc. tia sawi a ni. Mizoram tana Sanction hmuh tawh dan chu hetiang hi a ni :-

Phase I (2000-01)	:	Rs. 1191.86 lakhs
Phase II (2001-02)	:	Rs. 4937.90 "
Phase III (2003-04)	:	Rs. 4887.63 "
Phase IV (2004-05)	:	Rs. 9424.87 "
Phase V (2005-06)	:	<u>Rs. 12199.58 "</u>
Total :		Rs.32641.84 lakhs

A chung a Sanction hmuh tawh atanga kawng thar laih tur chu 1036.04 Km a ni a, hei hian black Top 334.02 Km a huam a ni. Khua tlawh tur chu 91 a ni. Hnathawh tur (proposal) hi



Photo : Khumtung - Baktawng road

mihring tam dan leh a kawng pawimawh dan a zira thlan zel a ni. Tun dinhmun (As on June-2006)-a hna thawh chin chu hetiang hi a ni :-

Kawngthar laih tawh	=	811.44 Km
Black Top zawh tawh	=	189.47 Km
Khua tlawh tawh	=	56 No.

PMGSY hna hi a tirah chuan kum 2007-a zawh tura ruahman a ni a. Amah erawh chu India ram pumah tum anga chaka hma a lak theih loh avangin kum 2009-ah zawh tura ruahman leh a ni. Tunah hian Central sawrkarin World Bank atanga sum pukin Mizoram District thenkhatah pawh chuta tang chuan thawh tura hmalak mek a ni bawk.

(To be continued)



Photo : Chhimechhip to Hmunkha road

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**TESTING FEE AT PWD CENTRAL
LABORATORY**

(as on 1st. August, 2006)

Sl No.	Description of Test	Rate (Rs)	Per Unit.
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Geotechnical Engineering

1.	Bulk Density of Soil	150.00	Per Sample
2.	Dry Density of Soil	300.00	Per Sample
3.	Specific Gravity of Soil	200.00	Per Sample
4.	Particle Size Distribution of Soil	300.00	Per Sample
5.	IS Classification of Soil	500.00	Per Sample
6.	CBR along with procter Density(4 days soaked)	1000.00	Per Sample
7.	CBR along with procter Density(unsoaked)	700.00	Per Sample
8.	Standard Procter Test with OMC	500.00	Per Sample
9.	Consolidation Test	1000.00	Per Test
10.	Liquid Limit and Plastic Limit	300.00	Per Test
11.	Soil Sample Collection (a) Disturbed Sample	100.00	Per Sample
12.	Standard Penetration Test	1000.00	Per Test/Level

Concrete and Construction Material

13.	Concrete Cube Test for mix Design	800.00	Set of 3cubes
14.	Compressor Strength of Brick	500.00	Set of 3brick
15.	Water Absorption of Brick	300.00	Set of 3brick
16.	Standard consistency of Cement	200.00	Per Sample
17.	Initial Setting Time of Cement	100.00	Per Sample
18.	Final Setting Time of Cement	200.00	Per Sample
19.	Fineness of cement by dry sieve	150.00	Per Sample
20.	Compressive Strength of Cement(7 & 28 days)	500.00	3 Cubes.
21.	Compressive Strength of Cement(7 & 28days)	300.00	3Cubes.
22.	Soundness of Cement	300.00	Per Sample
23.	Specific Gravity of Cement	200.00	Per Sample
24.	Bulking of Sand	100.00	Per Sample
25.	Specific Gravity of Sand	150.00	Per Sample
26.	Specific Gravity of Coarse Aggregate	200.00	Per Sample
27.	Particle size Distribution of Coarse Aggregate	350.00	Per Sample
28.	Particle size Distribution of Sand	350.00	Per Sample
29.	Flakiness Index	300.00	Per Sample
30.	Elongation Index	300.00	Per Sample
31.	Soundness of Coarse Aggregate	300.00	Per Sample
32.	AIV Test	200.00	Per Sample
33.	Los Angles Abrasion Test	500.00	Per Sample
34.	Water Absorption of Coarse Aggregate	200.00	Per Sample
35.	Rebound Hammer Test	1000.00	Per Floor
36.	Aggregate Crushing Value	300.00	Per Sample
37.	10% Fine Value	300.00	Per Sample

Bitumen and Emulsion

38.	Flash and Fire point Test	250.00	Per Sample
39.	Softening Point Test	200.00	Per Sample
40.	Viscosity Test	400.00	Per Sample
41.	Penetration Test	250.00	Per Sample
42.	Ductility Test	500.00	Per Sample
43.	Specific Gravity Test for Bitumen	200.00	Per Sample
44.	Marshall Stability Test	1000.00	Per Test
45.	Bitumen Extract Test	300.00	Per Sample
46.	Test on Cutback, Emulsion and Tar	300.00	Per Sample
47.	Bulk Density of Marshall Mould	200.00	Per Sample
48.	Benkleman Beam	500.00	Per Km
49.	Field CBR Test (Clegg Impact Tester)	500.00	Per Km
50.	Core Cutter	500.00	Per Sample.

INSTITUTIONAL STRENGTHENING GROUP (ISG)



Kan chhehvel thil vantlang inenkawlna atana thil ruahmanna



REIEK TLANG

Mizoram chhunga inkalpawhna kawngpui leh sawrkar In-te enkawlna atan kan tihtur chu

- Hna peng hrang hrangah kan chhehvel boruak leh khawtlang nun nghawng thei thil ngaihven reng
- Ei leh bar, vantlang thil leh leilung thilte inkhairual thei ang ber tura thutlukna siam
- Sawrkar laipui leh State-in dan leh hrai leh kalphung a duan tharte ngaih pawimawh.
- Sawrkar Department-te leh NGO te nena hmasawna thil leh hnathawh kawnga thawhho.
- Eng thil pawh siama hmalak a nih reng reng chuan, kan thiltihin a nghawng leh khawih phak mi mal leh vantlang thil zawng zawng ngaihthah loh.

In thar sak leh kawng thar sialna tura ruahmanna a awm reng renga kan tih tur chu

- Transport leh In hmun lo ram ruahmanna thilah chuan a khawihtu Sawrkar Department nena thawhho.
- Mipui vantlang leh ram leilung nghawng chhe lo thei ang ber tur kawng zawn chhuah.
- Ram leilung, vantlang thil leh ei leh bar zawna kawng tichhe lo thei ang ber tura ruahmanna siam bakah, a theih phawt chuan ram leilung leh mipui tana kawngro su thei ber tura duan.



(extract from workshop paper on Hazard Safety Management - by Er. Robin Lalrinawma)

Mizoramah hian kum 1970 bawr vel atang khan Cement concrete Building sak hi kan intihhmuh tan a. Vawiin niah phei chuan mi tam zawk chuan Cement concrete ngeiin In leh Lo nghet din kan tum vek tawh niin a lang.

Kan hmuh phak chinah pawh concrete building kum 70 -100 daih tura ngaih ten, kum 20 pawh tling mang loa mawih/chhia leh luah tlak loh khawpa building hrisel lo Aizawl khawpuiah hian a tam hle. Hei hi a chhan bulpui berah chuan kan hmanrua hmante kan uluk/that tawh loh avang leh Cement concrete hman dan kaihhruaina (IS Code) kan zawm that tawh loh vang a ni ber.

Cement hi a siamtu (manufacturer) ten a factory atanga an hralh chhuah hmian an test vek tur a ni a, a tling ngei a ni tih certificates leh manufacturing date leh batch no dealers te hnenah an pe tel tur a ni.

Manufacturing date atanga thla thum (3 months) aia upa/rei cement dealers ten an stock chuan, a cement kha a sample lain Test House (e.g PWD Laboratory Zuangtui, REC Silchar, etc) ah cement properties te hi test nawn leh a, a tlin vek a ngai a ni. Heng Test certificates leh manufacturing date leh batch no. nei lo cement hi chu structure pawimawhah chuan hman loh hram a tha. Tin, a zuartute pawhin neih ngei nachang an hriata a leitu lam pawhin certificate leh manufacturing date en chung a lei a tha bawh.

Tunlai hian cement pawlhdal tam tak bazarah a awm nia hriat a ni, Hei hi mit lawnga en chuan hriat hran mai a har em em a. PWD Central Laboratory, Zuangtui, Aizawlah Cement test tawh tam tak zingah pawh IS Code-in Cement quality tur a sawi ang pha lo a tam hle a ni. Heng cement te hi pawlhdal a nih loh vek chuan Cement hlui an nih ngei a rinawm.

Neih thinglung khawnga in leh lo cement concrete-a din tur tan chuan cement tha, test-a tling ngei chauh hman a tha. Engineer thiam tak tak te hmangin kan building structure te kan design tir a ni mai thei. Mahse kan cement hman a that si loh chuan kan concrete khan design ang a phak lo ang, kum 20 - 30 pawh tling loah a mawih chhe leh mai ang tih a hlauhawm a ni.

CEMENT CHI HRANG LEH A HMANNNA TUR TE		
Sl No	Type of Cement	End Use
1	OPC 33 & 43 (Ordinary portland cement)	General Civil Construction work under normal/mild environmental condition. OPC 33 gr normally not used for conc gr > M25
2	OPC 53	Used in RCC works, high grade concrete, cement grouts instant plugging mortar where initial higher strength is required.
3	PPC (Pozzalona portland cement)	Hydraulic structures, mass concreting works, marine structures, masonry mortar and plastering, and under aggressive condition.
4	Slag Cement	Used in constructions where sulphate and chlorides attack are susceptible, eg marine structure, sewage disposal treatment works, water treatment plant.



DEPARTMENT WEBSITE

PWD chanchin leh hnathawh en duh tan heng website-ah te hian en theih a ni e.

website:

www.mizopwd.nic.in

pmgsy.online.nic.in

E-in-C email: einc@mizopwd.org,

CE (HW) email: ce_hw@mizopwd.org

CE (Rds) email: ce_rd@mizopwd.org,

CE (Bldgs) email: ce_bdg@mizopwd.org



Sl.No	Name of Post	No. of Sanctioned	Post Filled	No. of Vacant
1	Engineer-in-Chief	1	1	-
2	Chief Engineer	3	3	-
3	Superintending Engineer	12	12	-
4	Senior Architect	1	1	-
5	Executive Engineer	45	43	2
6	Architect	2	2	-
7	Dy. Director Accounts	1	1	-
8	Dy. Director Administration	1	1	-
9	AE/SDO/SDO(TC)	141	137	4
10	Assistant Architect	5	4	1
TOTAL OF OFFICERS		212	208	7
11	FAO	3	3	-
12	Superintendent	4	4	-
13	Steno-I	1	1	-
14	Divisional Accountant	23	23	-
15	Asst. Research officer	1	1	-
16	Junior Engineer	282	254	28
17	Arch. Draftman	2	2	-
18	A.D.A	39	39	-
19	Assistant /HA	35	35	-
20	Steno-II	6	6	-
21	Draftman-I	3	3	-
22	UDC	196	193	3
23	Steno-III	17	6	11
24	Statistic Inspector	1	1	-
25	Draftman-II	33	31	2
26	Overseer-II	48	46	2
27	Divn. Mechanic	9	9	-
28	Electrician-I	7	7	-
29	LDC	204	201	3
30	Draftman-III	51	50	1
31	SA	210	210	-
32	Surveyor	6	6	-
33	Asst. Divn. Mechanic	9	8	1
34	Electrician-II	10	10	-
35	EPABX Operator	1	1	-
36	Wireman	2	2	-
37	Driller	2	1	1
38	Welder	2	2	-
39	Plant Operator	2	2	-
40	Charge Mechanic	3	3	-
41	Blacksmith	1	1	-
42	Tinsmith	1	1	-

- ❑ PWD pumpuiah 1994 staff awm turah 1912 thawktu an awm meka, post 85 chu hnawkhah loh a ni.
- ❑ Technical staff (JE, D/Man, OS, Electrician, SA & Surveyor) - 670 turah 618 an awm.
- ❑ Clerical staff - 530 turah 513 an awm mek a, 17 a ruak.
- ❑ EPABX Operator, Wireman, Driller, Welder, Plant Operator, Charge Mechanic, Blacksmith, Tinsmith, Elec. Fitter, Water Works Fitter, Carpenter, - 20 turah 19 an awm mek.
- ❑ Drivers - 120 turah 114 an awm mek a, 6 a ruak a ni.
- ❑ IV Grade - 442 turah 440 awm mekin, 2 a ruak a ni.

TRAINING ON NEW ACCOUNTING PROCEDURE FOR PMGSY WORKS

Reported by - Pu Vanlalfaka, ADA

July 19-21, 2006 chung khan "Training on New Accounting Procedure for PMGSY Works" PWD Conference hall-ah neih a ni. Training min rawn neih pui tur hian Delhi atangin Shri Brij Mohan, Finance Officer, NRRDA a lo kal a, hetiang hian hun hman a ni.

Dt. 19.7.2006 - Accounting Procedure of PIUs Programme Fund.

Dt. 20.7.2006 - Accounting Procedure of PIUs Administrative Fund.

Dt. 21.7.2006 - Accounting Procedure of SRRDA Programme & Administrative Fund.

Training hi Pu David Dosailova, Finance Controller, MiRRDA-in a kaihrui a, PIU/Division hrang hrang atangin DA/ADA mi 34 zet an tel. PMGSY Accounting Manual in a sawi ang taka PMGSY Account hi vawn tawh tur a nih dawn avangin training hi neih a ni. Online Management, Monitoring and Accounting System pawh NRRDA lamin min beisei angin neih tura ruahman mek a ni. Training hi a kal ten an hlawkpuiin, bengvar thlak an ti hle.

M.E. ZIRA KAL

Er. Lalthanzuala Ralte, EE, Quality Control Division chu ME (Project Management) IIT, Delhi, Hauz Khas-ah zir tuin a thang mek a. July ni 26, 2006 atang khan class a tan ve ta. Pu Zualtea zir chung hian a charge lo la turin Er. RK Vanlalrema, EE (P&W), E-in-C Office chu ruat a ni a. Hlawhtling taka rawn zir chuak turin Editorial board chuan duhsakna kan hlan e.

TRAINING-IN KAL

June ni 12-16, 2006 khan IIT, Guwahati-ah Computer Aided Seismic Design of RCC Building chungchang training neih Er. Lalbiaksangi, SDO, Quality Control Division, Er. Lalbiaknunga, SDO, Project Division-I leh Er. Lalremruata, AE, Design Cell, CE (Bldgs) office te an zuk kal a. Training hi tuang taka zuk neih dam takin an lo let leh tawh e.

News Letter-a thuchhuah tur nei chuan Editor hnenah a rang lama rawn thawn thin turin kan inngen e.