EXECUTIVE SUMMARY

(English & Hindi)

OF

Ranihat Sand, *Bajri* & Boulder Mining Project

Village: Ranihat, Tehsil: Devprayag,

District: Tehri Garhwal, State: Uttarakhand

Area: 10.686 Ha, Proposed Capacity: 2, 26, 000 TPA

APPLICANT

GARHWAL MANDAL VIKAS NIGAM LTD.

74/1 RAJPUR ROAD, DEHRADUN

Prepared By

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(An ISO 9001:2008 Certified Co.: Accredited by QCI / NABET: Approved by MoEF, GoI)

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INTRODUCTION

As per MoEF, New Delhi Gazette dated 14th September 2006 and amended thereof, the proposed mining project is categorized as **category 'B'** project.

The project is being proposed by Garhwal Mandal Vikas Nigam (GMVN) Limited. The proponent has applied for mining lease in the name of Naithana Sand, *Bajri* & Boulder Mining Project from the bed of Alakhnanda River over an area of 8.651 ha.

It has been proposed to mine around 2,26,000 Tonnes per annum of minerals. The estimated project cost for the proposed project is Rs.15,50,000.

LOCATION

The lease area is located in Village: Ranihat, Tehsil: Devprayag & District: Tehri Garhwal, Uttarakhand.

The mine lease co-ordinates are listed below:

Latitude	30°13'38.008"N to 30°13'19.02"N
Longitude	78°47'31.34"E to 78°47'47.48"E

MINING

This is an open-cast mining project. The operation will be entirely manual with use of hand tools like shovel, pan, sieves, pick axes, etc.

Mining will be done in layers upto a depth of 1.5 m, leaving a safety distance from the banks 1/5th of the of the width of the river will be left for bank stability from both the banks.

The deposit will be worked from the surface of the bed upto 1.5 m bgl or above ground water level, whichever comes first. Hence, at no point of time mining will intersect with ground water table.

Mining will be done only during the day time and completely stopped during the monsoon season.

RESERVE (AVAILABLE QUANTUM) AND PRODUCTION (EXTRACTABLE QUANTUM)

The sediments proposed to be extracted are sand & boulder which are generally found in the river bed in the lease area. The sediments like sand/*bajri* along with silt & clay are brought into

the bed through transport from the catchment area, are referred as "Wash Load". And the sediments which are in continuous contact with bed, carried forward by rolling/sliding are referred to as "Bed Load".

Reserve (Available Quantum):

The already existing quantity at the river bed in the lease area due to fresh depositions has been considered to be the quantum of mineral available (**Reserve**) which may be mined out. In order to calculate this quantity, the lease area has been considered with an ultimate depth of 1.5 meter from the surface (excluding the boulder available on the surface). For the reserve tonnage estimation, the reserve quantity is multiplied with the bulk density of 2 tonnes per cum (for mixed sand and *bajri*).

The reserve for the site has been estimated to 2, 51, 000 tonnes

Production (Extractable Quantum):

However considering the factors such as geological disturbances, volume that cannot be mined due to flow of water and also considering the safety factor, approximately 2, 26, 000 tonnes has been considered to as production or the extractable quantity from the mineable area for grant of Environmental Clearance. The mineral is likely to be replenished due to sediment inflow, gradually during the monsoon seasons.

> Of the quantum of minerals which will be excavated, only sand is replenishable. Boulders which may roll or come into the lease area during high flow velocity of water or during floods.
> Thus the extractable quantum in the first year would be limited to the available quantum. The extractable amount for the further years may vary depending on amount/rate of actual replenishment which is to be monitored by expert agencies every year.

SITE FACILITIES AND UTILITIES

Water Supply

Water will be provided to workers for drinking & domestic purpose. Water will also be required for dust suppression. A total of 2 KLD water will be required for the proposed project.

Temporary Rest Shelter:

A temporary rest shelter will be provided for the workers near to the site for rest. In addition, First aid box along with anti-venoms to counteract poison produced by certain species of small insects, if any and Sanitation facility i.e. septic tank or community toilet facility will be provided for the workers.

BASE LINE DATA

Environmental data has been collected in relation to proposed mining for Air, Noise, Water, Soil, Ecology and Biodiversity.

Table 9.1 Baseline Environmental Status

Attribute	Baseline status
Ambient Air Quality **Ambient air quality was monitored at 5 locations within a 5 km radius of**	Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM10 amongst all the 5 AQ monitoring stations were found to be 49.3µg/m^3 at AQ1 and 86.5 µg/m^3 at AQ2, respectively. As far as the gaseous pollutants SO2 and NO2 are concerned, the prescribed CPCB limit of 80µg/m^3 for residential and rural areas has never surpassed at any station.
Noise Levels	The results of the monitoring program indicated that both the daytime and night time levels of noise were well within the prescribed limits of NAAQS, at all the 5 locations monitored.
Water Quality	The ground water from all sources remains suitable for drinking purposes as all the constituents are within the limits prescribed by drinking water standards promulgated by IS: 10500. From surface water analysis results it is evident that most of the parameters of the samples comply with 'Category B' standards of CPCB, indicating their suitability for outdoor bathing.
Soil Quality	Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 7.43 to 8.02, which shows that the soil is alkaline in nature.
Ecology and Biodiversity	There is no wildlife sanctuary/ national park/reserved forest and protected forest or conservation reserve within 10 km of the lease area.

ANTICIPATED IMPACTS AND MITIGATION MEASURES:

LAND ENVIRONMENT:

Anticipated Impacts:

Undercutting and collapse of river banks.

Excessive and unscientific riverbed material mining is a threat to bridges, dams and nearby structures.

River bank cutting and erosion.

Upstream erosion as a result of an increase in channel slope and changes in flow velocity.

Downstream erosion due to increased carrying capacity of the stream

Downstream changes in patterns of deposition.

Changes in channel bed and habitat type.

Mitigation measures:

- Since the project is mainly for sand and boulder excavation (soil deficient), no loss of top soil is involved.
- The silt and clay generated as waste will be used for plantation or filling up low lying area elsewhere.
- Mining will be done leaving a safety distance of $1/5^{th}$ of the width of the river from the bank inwards for bank protection.
- In this activity, the work is proposed to be done manually which will avoid adverse effects associated with heavy machinery and their functioning.
- The mining is planned in non monsoon seasons only, so that the excavated area gets replenished during the monsoon each year.

Grasses and bushes which have fibrous roots at the first instance are proposed to grown along the banks which enhances the binding properties of the soil. Hence protecting the banks.

The systematic and scientific removal of sand and boulder will not cause bed degradation.

Restoration of bank will be ensured at the end of mine closure every year.

WATER ENVIRONMENT:

Anticipated Impacts:

Mining of sand from within or near a river bed has a direct impact on the physico-chemical habitat characteristics. These characteristics include in stream roughness elements, depth, velocity, turbidity, sediment transport and stream discharge. Altering these habitat characteristics can have deleterious impacts on both in-stream biota and associated riparian habitat.

The detrimental effects, if any, to biota resulting from bed material mining are caused by following:

> alteration of flow patterns resulting from modification of the river bed
> an excess of suspended sediment
> Damage to riparian vegetation and in-stream habitat

The disturbance activities can also disrupt the ecological diversity in many ways.

Mitigation measures

Project activity will be carried out only in the dry part of the river bed. Hence, none of the project activities affect the water environment directly. In the project, it is not proposed to divert or truncate any stream. No proposal is envisaged for pumping of water either from the river or tapping the ground water.

In the lean months, the proposed sand mining will not expose the base flow of the river and hence, there will not be any adverse impact on surface hydrology.

> The deposit will be worked from the top surface up to a maximum depth of 1.5m below ground level or above the ground water table whichever comes first. Hence mining will not affect the ground water regime as well.
> Further mining will be completely stopped during the monsoon seasons to allow the excavated area to regain its natural profile.

AIR ENVIRONMENT:

Anticipated Impacts:

Emission of fugitive dust is envisaged due to:

Mining Activities includes excavation and lifting of minerals. The whole process will be done manually. Therefore the dust generated is likely to be insignificant as compared to mining processes involving drilling, blasting, mechanized loading etc.

Transportation of minerals will be done by road using trucks. Fugitive dust emission is expected from the transportation of trucks on the haul roads.

Mitigation measures

The collection and lifting of minerals will be done manually. Therefore the dust generated is likely to be insignificant as there will be no drilling & blasting. The only air pollution sources are the road transport network of the trucks. The mitigation measures like the following will be resorted:

Water sprinkling will be done on the haul roads twice in a day. This will reduce dust emission further by 74% (*Ref. Haul road dust control by WR REED & JA Organiscak*). The same can be seen as shown in the above graph (Fig.4.1).

Speed limits will be enforced to reduce airborne fugitive dust from vehicular traffic.

Spillage from the trucks will be prevented by covering tarpaulin over the trucks.

Deploying PUC certified vehicles to reduce their emissions.

Proper tuning of vehicles to keep the gas emissions under check.

Monitoring to ensure compliance with emission limits would be carried out during operation.

NOISE:

Anticipated Impacts:

>Mental disturbance, stress & impaired hearing.
>Decrease in speech reception & communication.
>Distraction and diminished concentration affecting job performance efficiency.

Mitigation measures

The following measures have been envisaged to reduce the impact from the transportation of minerals:

The vehicles will be maintained in good running condition so that noise will be reduced to minimum possible level.

In addition, truck drivers will be instructed to make minimum use of horns in the village area and sensitive zones.

No such machinery is used for mining which will create noise to have ill effects.

Awareness will be imparted to the workers about the permissible noise levels & maximum exposure to those levels.

BIOLOGICAL ENVIRONMENT

Anticipated Impacts:

Excessive and unscientific riverbed sand mining results in the destruction of aquatic and riparian habitat through large changes in the channel morphology.

Access roads crossing the riparian areas will have impact on the species disturbing the ecosystem.

Mining may drive away the wild life from their habitat, and significantly affect wildlife and nearby residents.

Diminution of the quality and quantity of habitat essential for aquatic and riparian species.

Reduction in the yield of agriculture due to deposition of dust on the leaves, etc. of the crops.

Fragmentation of wildlife habitat and blocking of migratory paths/corridors. Isolation may lead to local decline of species, or genetic.

Mining on the streambed, braided flow or subsurface inter-sand flow may hinder the movement of fishes between pools.

Mitigation measures

As the proposed mining will be carried out in a scientific manner, not much significant impact is anticipated, however, the following mitigation measures will be taken to further minimize it:

No mining will be carried out during the monsoon season to minimize impact on aquatic life which is mainly breeding season for many of the species.

As the mining site has no vegetation, no clearance of vegetation will be done.

Prior to closure of mining operations/during the rainy season the eroded bank will be restored/reclaimed to minimize negative impacts on aquatic habitats.

Haul roads will be sprinkled with water which would reduce the dust emission, thus avoiding damage to the crops.

Mining will be carried out on the dry part of the lease area to avoid disturbance to the aquatic habitat and movement of fish species.

No discard of food, polythene waste etc will be allowed in the lease area which would distract/attract the wildlife.

No night time mining will be allowed which may catch the attention of wild life.

If wildlife are noticed crossing the area, they will not be disturbed at all.

Workers will be made aware of the importance of the wildlife and signage will be displayed at the sensitive areas to caution the workers & other passerby.

Access roads will not encroach into the riparian zones and if any riparian vegetation cleared off for the mining activity will be restored at the end of closure of mine.

ENVIRONMENTAL MANAGEMENT PLAN (EMP) & ITS IMPLEMENTATION

Extraction will be done from the main channel leaving safety zone from bank & stream.
The maximum working depth will remain above ground water table of the area.
Provide health facilities to the workers & surrounding people in the impact area to reduce the health impacts.
Ensuring wildlife protection & arranging awareness campaigns for the same.
Minimize activities that release fine sediment to the river.
Check on traffic load due to transportation & maintenance of evacuation route.
Effective mitigation measures will be adopted to minimize disturbance during transportation & handling of minerals:
Establishment of reclamation program with plantation of local/native & fast growing species
Establishment of restoration plan during the closure of mine at the onset of monsoon season.
Establishment of effective Disaster Management Plan to take timely precautionary measures to avoid effects of impending disasters.
Establishment of effective Monitoring Program monitored by Environment Management Cell.

BUDGET ALLOCATION FOR EMP IMPLEMENTATION

S. No	Description	Measures	Capital Cost (Rs. In lakhs)	Recurring Cost(in lakhs/annum)
1	Health Facilities	Medical Camps and Awareness program	1.0	1.3
2	Wildlife Protection	Importance of Wildlife (Awareness)	-	0.05
		Sign boards, information boards	0.5	0.1

3	Mineral transportation and Handling	Repairing and maintenance of Roads Water Sprinkling	0.5 -	0.3 1.2
4	Restoration and Reclamation	Plantation Maintenance of Check dams and Retention wall Restoration of banks	1.0 - -	0.36 0.3 1.0
Total			**3.0**	**4.61**

BENEFITS OF MINING

PHYSICAL BENIFITS

The opening of the proposed project will enhance the following physical infrastructure facilities in the adjoining areas.

Improvement in Road Transport/road communication due to the proposed project and maintenance will also be done time to time.

Market: Generating useful economic resource for construction. Excavated mineral will provide a good market opportunity.

Enhancement of green cover: As a part of reclamation plan, plantation will be carried along the river banks or along the road sides or near the civic amenities.

Creation of community assets (infrastructure) like provision for drinking water, construction of school buildings, village roads/ linked roads, dispensary & health centre, community centre, market place etc, as a part of corporate social responsibility.

SOCIAL BENEFITS

Increase in Employment Potential due to the project activity.   Employment opportunities will increase both directly as well indirectly.

Contribution to the Exchequer as the saleable minerals will be given royalty. Since the quarries will be leased out to successful allottees, mining operation in the state will get legalized and it will fetch income to the state exchequer.

Increased Health related activities: Healthcare promotional activities will be undertaken. Pre-placement & and Periodic medical checkups will be done, which will lift the general health status of the residents of the area. Health camps, medical aids, family welfare programs, immunization camp sports will be arranged.

Educational attainments: Educational activities will be promoted by the lessee. Awareness program will be arranged covering basic issues related to primary level education, environment, health and hygiene etc.

Strengthening of existing community facilities through the Community Development Programme.

ENVIRONMENTAL BENEFITS

Controlling river channel

Protecting of river banks

Reducing submergence of adjoining agricultural lands due to flooding.

Reducing aggradation of river level.

Protection of crops being cultivated along the river bank.

A check on illegal mining activity.

CORPORATE SOCIAL RESPONSIBILITY

A percentage of the project cost will be allotted for the Corporate Social Responsibility for activities related to education, social causes, healthcare & environmental.

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[k- [kfutka dh <§ykbZ lMd ekxZ ls Vªdka ls fd;k tk,xkA igpp ekxZ ij Vªdka dh
vkoktkgh lsmMusokyh èku dk mRI tU gksl drk g&

U;uhdj.k dsmik; %

[kfutka dk lxg vkj <§ykbZ dk dk;Z Jfed gkFkka ls djxkA blea fMMfyxk ;k foLQksV dk
lgkjk ughafy;k tk,xk blfy, èku cgqr de mRiUu gksxhA Vªdka dk lMd ifjogu ra=
ok;qinlk.k dk ,dek= lkr g& U;uhdj.k dsfuEufyf[kr mik; viuk, tk,xs%

d- igpp ekxksaij fnu easdkscsj ikuh dk fNMedko fd;k tk,xkA bl lèku dsmRI tU
es 74 ifr'kr vkSj deh gksxh ¼lan- MCY;vkj jhM o t§ vkfkfuLdfd dk gkV/Y jkM MLV
dVsy¼ bls±ij iLrqr xkQ easn[kk tk l drk g&¼fp= 4-1¼A

[k- okgukadh vkoktkgh lsmMusokyh èku eadeh ykusdsefnjtj xfr lhek,ayksxkwdh
tk,xhA

x- Vªdkaij frjiky Mky dj Vªdkls gksusokysNydko dh jksdFkke dh tk,xhA
?k- mRI tU dksde djusdsfy, ih;wh dsiek.ki= iklr okgu pyk, tk,xA
p- xS mRI tU dksfu;f=r j[kusdsfy, okgukadh lefpr V;fux dh 0;oLFkkA
N- dk;Z dsnk§ jku mRI tU lhek dk vuqikyu lqfuf'pr djusdsfy, fuxjkuh 0;oLFkkA

17/X

<u>èofu %</u>

vuekfur iHkko %

- ekuflld v'kkfir] ruko vkSj Jo.k 'kfDr dh {kh.krkA
- cksyus vkSj ckrphr djus dh 'kfDr eadehA
- ,dkxrk Hkax vkSj de gksuk & QyLo:i dk;Zfu"iknu {kerk iHkkfor

U;uhdj.k dsmik;;

[kfutkadh <gykbZ l smRiUu iHkkokaeadeh dsfy, fuEufyf[kr mik;ka ij fopkj fd;k x;k gS%

d- okgukadk vPNh pkyw gkyr eaj[kj[kko fd;k tk,xk rkfd èofu ;FkkIHko U;ure Lrj rd de dh tkldA

[k- blds vfrfjDr] Vªd pkydka dks xkoa ds lkFk&lkFk lcsu'khy {ks=ka eaHkkiw dk mi;kx de lsde djusdk funZk fn;k tk,xkA

x- [kuu dk;Ze ,slh fdlh Hkh e'khu mi;kx ugha fd;k tk,xk ftll sifrday iHkko Mkyusokyh èofu mRiUu gksA

?k- Jfedka dksèofu dsfuèkZzkj Lrjka vkSj mu Lrjka dk vfèkd lsvfèkd ikyu djusds ifr tkx:d fd;k tk,xkA

tfod i;kbj.k %

ipkuquekfur iHkko %

- unh dsdNkj lsjr dsvfr vkSj voKkfud [kuu dsQyLo:i ty izkkly dh vk—fr eaifjorZu dsdkj.k tyh; vkSj rVorhZ ik—frd vkokl dk uk'k gksrk gA

- rVorhZ {ks=ka ls gks dj xqtjusokysigp ekxksadk iM&iksfkka vkfn ij iHkko iMxk ftll si;kbj.k izkkyh vLrfyr gksxhA

- [kuu dsdkj.k oU; tho vius vkokl {ks= lsnwj tk ldrs gS ftl dk i;kIr ifrday iHkko oU;thou ,oalehi eajgusokysykxkaij iMxkA

- ty; ,oarVorhZ thotxr dsfy, vko';d ik—frd vkokl dh xqkoÙkk vkSj ek=k eadehA

- QI ykads iÙkk vkfn ij èkuy teusdspyrs[ksrh dh mit eadeh

- oU;tho ds ik—frd vkokl dk {kj.k vkŝ ipkl ikFkke@xfy;kjka dk vo#) gksukA foyxko dsQyLo: i LFkkuh; iztkfr;ka;k mRipÙk eadeh gksldrh gA

- èkkjk ry] iVVh ipkg ½cMM¼ ¶yki½;k Irg dh jr ½oVj&I&M½ ds [kuu Istyk'k;ka eaeNfy;ka dh xfrofèk ckfèkr gksldrh gA

U;uhdj.k dsmik;

iLrkfor [kuu dk;Zo&Kkfud <x Is fd;k tk,xk] bIfy, vfèkd xÙkhj iÙkko dh IÙkkouk ughag$ fdrÙ bls vkŝ deh dsfy, fuEufyf[kr mik; fd, tk,xs%

1- tyh; thoka ij iMÙs okys iÙkko dks de djusdsfy, ekulu dsekŝ e nkŝku] tks db Z thoka ds tuu dk ekŝ e gksrk g$ dkbZ [kuu dk;Zughafd;k tk,xkA

2- [kuu LFky ij dkbZouLifr ughag$ bIfy, ouLifr dh IQkbZughadh tk,xhA

3- igppa ekxks ij ikuh dk fNMdko fd;k tk,xk ftI Is èkuy mRI tIu eadeh vkŝ QI ykads updI ku dh jksdFkke gksxhA

4- tyh; thoka ds ik—frd vkokl vkŝ eNfy;ka dh xfrofèk dks ckfèkr gkus Is cpkus dseíutj [kuu dk;ZiVVk {ks= ds dhoy Iu[ks{ks= ij fd;a tk,xkA

5- Hkkstu ds tÙu] ikfKyFkhu ds dMÙs dsifr oU;thoka ea fodk"kZ@vkd"kZk gksldrk g$ bIfy, iVVk {ks= ea,Is inkFkZQudus dh vunefr ughagksxhA

6- [kuu dsifr oU;thoka dk è;ku vkdf"kZr gksldrk g$ bIfy, jkr dsle; [kuu dk;Zdh vunefr ughagksxhA

7- ;fn oU;tho {ks= Is xqtjrsn[ks tk,a rksmÙga fdlh Hkh rjg Is ckèkk ughaigppkbZtk,xhA

1. Jfedka dks oU;thoka ds ifr tkx: d fd;k tk,xk vkŝ Jfedka rFkk vU; vku&tku okys ykxka dks I pr djusdsfy, Ienu'khy {ks=ka ij Idr yxk, tk,xkA dka ds ifr I pr fd;k tk,xkA

2. igp ekxZ rVorhZ {ks=ka dk vfrØe.k ughadjxs vkŝ [kuu dk;Z dsfy, ;fn dkbZ ouLifr dkVh tkrh g$rks[kuu dk;Z ijk gks tkusij iqu%oujksi.k fd;k tk,xkA

i;kZoj.k iz¼ku ;kstuk ¼b,eih½,oamlldk dk;kZo;u

- lxng rV vkSj èkkjkk Is Igjf{kr {ks= NkMsrsgq e[; iz¼kky Isfd;k tk,xkA

- dk;Zdh vfèkdre xgjkbZ {ks= dsHkmly Lrj dsÅij jgxhA

- LokLF; ij iMusokysifrdwy iHkkokadksde djusdsfy, iHkko {ks= esaJfednka vkSj vklikl dsyksxkadksLokLF; Ifjoèkk,aegÜk djkbZ tk,xhA

- oU;tho lja{k.k Iquf'pr dh tk,xh vkSj blldsfy, tkx:drk vfHk;ku pyk, tk,xA

- ,slh xfrfofèk;kade dh tk,xh ftudsQyLo: i Isfe ryNV unh esaigp IdA

- <gykbZ vkSj fudkl ekxZdsj[kj[kko dspyrsifjogu ij iMusokysHkkj ij fu;a=.k j[kk tk,xkA

- ifjogu vkSj [kfut inkFkksdsj[kj[kko dsnksjku mRilUu gksusokyh xMÃMh dks de djusdsfy, U;uhdj.k dsiHkko'kkyh mik; viuk, tk,xs%

- LFkkuh;@e; ,oarsth Isc<usokysthoka dsfy, Ijkkj dk;Øe dk IpkyuA

- ekuln __rqdsvkusdsle; [kuu dscnh dsnksjku uohuhdj.k ;kstuk dk fØ;kUo;uA

- IÐkkfor vkinkvkalscpusdsfy, le; ij ,gfr;krh mik; viukusgrq iÐkko'kkyh vkink iz¼ku ;kstuk dk fØ;kUo;uA

- i;kZoj.k iz¼ku izdksÔB }kjk iÐkko'kkyh fuxjkuh dk;Øe dk fØ;kUo;uA

bZ,e-ih dsfy, ctV vkoVu

Øe la	fooj.k	mik;	Ikbthxr Ykkxr eV; : - yk[ka esa	vkoZh eV; #- Ykk[ka esa@lkykuk
1	LokLF;	esfMdy dSi vkSj	1.0	1.3

	Ifjo/kk	tkx#drk ibxkie		
2-	[kfut dk j[k[kko vk§ Ipkyu	& 0kU; thoka dk egRo ¼tkx: drk½	-	0.05
			0.5	0.1
		& Ikbu ckMZ Ipuk ckMZ		
3-	ipkboLFkk dh ikfIlr	& IMedka dh ejEer vk§ j[kj[kko	0.5	0.3
		& ty fNMedko	-	1.2
4-	ou thoka dk Ij{k.k	& o{kkjksi.k	1.0	0.36
		& ck/kka dh ckf/kr nhokj dk j[k j[kko	-	0.3
		& fdukjka ds ejEer dk;Z	-	1.0
	dqy		**3.0**	**4.61**

[kuu dsY{kk

Hkk§rd ykHk

iLRkkfor ifj;kstuk ds ikjHk gkus Isvkl ikl dsfuEufyf[kr {ks=ka ea Hkk§rd cfju;knh <kps dksc<kok feysxkA

d- IMed ifjogu ;k IMedka IsidZ ea of)

[k- [kfut IsvPNscktkjh volj feysxkA

Xk- gfj;kyh o{kkjksi.k dksc<kok

?k- Ieqkf;d ifjlifÙk;ka dk I`tu ¼cfju;knh <kps½

Lkkekftd ykHk%

d½ jkstxkj ea of)

[k½ jkt dksk eavk)knku ¼[kfut fd fcØh Isjkstdo iklr gksxk½

]Xk½ LokLF; Icf/k xfrfof/k;k dksc<kok

?k½ "kf{kd xfrfof/k;ka cukus vk&j mudks c<kok nsxdh ;kstukA

M-½ rRdkyhu lemk;k dk lq¡<kdj.k lkemkf;d fodk; dk;Øe ds ek/;e ls lfjo/kk dk;ØeA

i;kbj.kh; ykHk%

d½ ufn;ka dh /kkjkvka ij fu;a=.kA

[k½ ufn;ka ds fdukjka dh lqj{kkA

Xk½ ck< ds dkj.k vkl &ikl ds{k=ka ds dfk'k Hkfm dksde lsde tyeXu gksus ls cpkukA

?k½ unhsLrj ds mPp;u dksde djukA

M½ unh ds fdukjka ds vkl ikl ij mxh Qlyka dh lqj{kkA

p½ vo§k [kuu jksdus ds mik;A

dkikjjÿ lekftd nkf;Ro

fuxfer lekftd nkf;Ro xfrfof/k;ka ds fy, ifj;kstuk ykxr dk vkl vkofIVr fd;k tk,xk] Tk§sf'k'k{kk] lkekftd dkj.k] LOkkLF; ,oa i;kbj.k ns[kHkkkyA

* * * * * * * * * * * * *