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246-0000100 W

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	fhklv	ABI	(AB)	96					
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	Zafu	miu	beva	pbeb\	b	ihjg	97				
	GhfbZevg	g	g	b	d	dhegZlh	Z	97			
	Iheb	=	(kiZhqb)	98					
	hebhhqg	iZfj	bZley	98					
	Iheb	>	(kiZhqb)	99					
	hebhhqg	iZfj	lhibgo	gkhkh\	ukhdh	Zegy	99				
	Iheb	?	102					
	BdbndZpby	bkizhklc	bZley	b	lmhdhfikkhZ	102					
	Iheb	@	(kiZhqb)	103					
	fZ	klhhd	bZley	103					

1 B B H

1.1 b b

1.1.1

eg \ LZēbp_ 1. LZēbpZ 1, hēZklv ipfgy b mkehby wdkiemZIZpbbZley iklZ -

GZbfhZ - g_	bZlev			
	>246.1	>-246.2	>-246.3	>-246.4
F h s g h k l v g h f b g Z e y g Z y i _ j _ ^ \ b ` ` go b klZ- pbhZpo wedlhZj - Zlh\ b wed- lhklZgbc (g he_), dk	30	40	50	60
G Z a g Z q - g b - ^ b a _ e _ c	D e b f Z I b q _ nkehby wdkiemZIZpbb\ khhlklbb k lh - Zbyfb =HK 10150			akhIZ z^ mhē fhj , f
	LfiZlmZ Zmgh	ħafnoZ , ° K hdjmZxsh baev (\ ihfsbb)		
I _ j _ ^ \ b ` ` g_	hl fbgk 50° K ħ iexk 50° K	-		ħ 2000
K I Z p b ħ g Z j g_	hl fbgk 40° K ħ iexk 40° K	hl iexk 8° K ħ iexk 50° K	ħ 2000	

1.1.2.3

4

Bafyfuc izZflj	BgpZ bafgy	KZ bafgy	FZdkbfZevg himkdZfZy ih - ihklv bafgy beb ZkqLZ izZflh\	IbfqZg_
D j m l y s bfg	G• f	Lghflbqkdb_ b bZfhflbqkdb_ kbehbafplevg_ mklhcklZ - ih =HK 15077-78	-1,5%	ey ZkqLZ hfbZevgc fhsgklb
Q Z k l fZjy	k '1	Wedlhg_ lZohflj lbiZ LWK - ih LM25-04.3663-78, =HK 18303-72	-2,0%	
> Z \ e _ gZkeZ \ kklf_ kfZadb	dIZ	FZghflj , fZghZdmmfflj - ih =HK 2405-80, =HK 11161-84, bafplevg_ ihZahZleb Zehy b Zahy - ih =HK 22520-85	-5,0%	
Q Z k h Zkoh^ lhiebZ]k	GklZZjg_ kKZ bafgy	-1,0%	ey ZkqLZ mEvgh ZkohZ lhiebZ

1.1.3

khklhbl ba fZec , kfhqgo bbp b dhfiedlh\ .

1.1.3.1 b h b b b >-246

LZfbpZ 5

GZbfhZg_	kfhqgo	bbp	b dhfiedlh\
; e h p e b b \			
M k l Z g h e d i Z	p e b b \	b i m k d h h	l Z d l Z
M k l Z g h k Z o n Z			
l j b \ h h i e b g h	z k h k Z		
* M k l Z h d Z	l m h d h f i k k h Z		
M k l Z g h f X k e y g h	d Z j Z		
M k l Z g h h i e b g c	Z i i Z l m j u		
* F Z k e h i j h u	l m h d h f i k k h Z		
D h j i n h k l Z i Z			
M k l Z g h y g h Z	z k h k Z		
M k l Z g h e y l Z			
M k l Z g h f X k e y g h	z k h k Z		
M k l Z g h f l o Z			
M k l Z g h k o b Z	z d Z e b Z g y		
M k l Z g h l z j Z			
M k l Z g h g d Z	h i h j u		
M k l Z g h m b e v Z	f Z k e y g h		
D h f i e a d i Z k g o	q Z k l c	b i p z e h k l c	

* - ey bZlec >-246.2, >-246.3, >-246.4

fhklv ABI bZley \ ipehb ; zklhys h jndhhklZ (lZfbpZ ; .1, lZfbpZ ; .2).

1.1.3.2 K b b b \ Z

6

GZbfhZb_maeZ fZeb	bZlev			
	>246.1	>-246.2	>-246.3	>-246.4
L m j [h d h f i j _ k k h j	Hlklmlklml	LDJ 6 (;A: , J)		
L h i e b \ g k k k k h d h - h Z e g y	4MLGW1111007-100(H:H «GAL: », N) beb 776.1111005/WW2 (H:H «YA> », N) beb		776.1111005-01/WW2 (H:H «YA> », N) beb	
	PP4M10P1f-4204-10; -20 beb PP4M10P1f 4204; 4218 («MOTORPAL», Qoby)	PP4M10P1f-4244-10; -20 (A:H «J:A », N) beb PP4M10P1f-4244; («MOTORPAL», Qoby)	PP4M10P1f-4245-10; -20 (A:H «J:A », N beb PP4M10P1f-4245; («MOTORPAL», Qoby)	PP4M10P1f-4205-10; -20 (A:H «J:A », N) beb PP4M10P1f 4205 («MOTORPAL», Qoby)
N h j k m g d Z	172.1112010-11.01 (A:H «:AIB », N), beb 455.111 2010-50 (H:H «YA> », N), beb VA70P360 2994 («MOTORPAL», Qoby)			
Nbevlj hqbkl db lhiebZ	Nbevlj jhc hqbkl db lhiebZ (hklhcd); Nbevlj lhgc hqbkl db lhiebZ kh kfgf nbevlhf (Zahh lbiZ)			
kafnrgc nbevlj	DhfhhZgc : fhgpbdehg (iZplevZy klmig hqbkl db hmoZ) b hmoqhqbklblev k fZkey- gf iuemehblef b fhdjuf dZihguf lokdpb - hgf nbevljxsbf wefhf .		DhfhhZgc : fhgpbdehg (iZplevZy klmig hqbkl db hmoZ) b hmoqhqbklblev k fnfZgfb nbevljxsbf wefvZfb	
N b e v h q b k l d b f Z k e Z	Iheghlhqgc phgc beb iheghlhqgc kh kfgf nbevlhf (Zahh lbiZ)			
< _ g l b e y l h j i h ^	Rklbehizklgc , lhedZxsh lbiZ , Ø456 k debhfgf iphdf hl dhegZlhh ZeZ			
l m k d h n k l h c k l h	KZj hfbZevgf Ziygf 24 < beb 12 <			
= _ g _ j Z l h j	Ijgh lhdZ hfbZevgf Ziygf 14 < beb 28 <, hfbZevgc fhsgklvx 1000 k beb 1150 k beb hlkl- klml			
K j _ ^ k h e g y imkdZ	Kb ZdZebZey rlnlh_ , hfbZevg_ Ziyg_ 23 < beb 11 < b fklZ ey ihhZ b hlhZ liehgk - lec ip ihdexqbb imkdhh ihhZley			
H o e Z ` ^ k o k f u kfZadb	fZkeygc ZbZlhj beb bdkhg -fZkeygc liehfgd			

İkmğd 1 Hşbc b^ 0Zley >-246.1

1Z Hfbc b^ bZley >-246.2

J b k m g h d f bc b^ bZley >-246.3; >-246.4

1.1.4 Mh b

1.1.4.1. H h

>-246.1 yeylky fhbnbdZpbc fh**eb** **bZley** >-243, **bZleb**
 >-246.2, >-246.3, >-246.4 yeyxlky fhbnbdZpbc fh**eb** **bZley** >-245.
bZleb i**NZeyxl** kh**hc** 4-o lZdlgc ih**hc** qlu**ppbebbuc**
bZlev m**lh** kh**Zby** k j**gf** l**bdZevgf** **Zkiheh**bf**** p**beb**g**** -
 h\ , i**hkl**lf**** i**ukdhf** **baev**gh**** lhiebZ b h**kieZ**bf**** hl kZlby .
 H**kh**gfb**** k**hh**qgfb**** **b**gpZfb**** **bZley** yeyxlky : **ehd** p**beb**h**** , h -
 eh**dZ** p**beb**h**** , i h**g** , rZlmg , dh**egZluc** Ze b fZoh**bd** .
 ey h**kiq**by**** **ukhdbo** l**ogdh** -wd**h**gfbqkdbo**** i**hdZaZ**lec**** **Z** **bZle**
 >-246.2 \ kbkl**f** i**mkdZ** i**bf**g**** l**mh**Zm**** , Z **Z** **bZleyo** >-246.3, >-246.4
 i**bf**g**** l**mh**Zm**** k i**h**fm**lh**qg**f**** h**oeZ**bf**** **Z**m**h**q**gh****** h**af**noZ**** .
 I**bf**g**** l**mh**Zm**** h**kiq**by**** **bZleyf** lZd' **ukhd**bc**** m**h**g****
 khhl**kl**by**** l**hZ**byf**** d kh**Z**bx**** **bo** u**hkh** \ h**Z**h**lZ**rbo**** **ZaZo** .
 ey h**kiq**by**** m**h**h**** i**mkdZ** \ m**keh**byo**** **gadbo** l**fiZ**lmj**** h**dj**nZx**** -
 sc k**h** \ h**eh**d**** **bZley** m**klZ**h**eg****** k**qb** **ZdZebZ**by**** .**

1.1.4.2 b h M b M M M

b **cklby** **bZley** yeylky i**hZahZ**g**** lie**h**hc**** w**bb**
 lhiebZ , kh**Zxsh** \ **Z**h**q**f**** p**beb**g**** , \ fo**Z**g**qkdmx** w**bx** .
 I**h** oh^ i**h**g**** **ga** **Z** lZdl_ k**ZkuZ**by**** q**a** hldj**luc** i**mkd**hc**** deZiZ**g** \
 p**beb**g**** i**hklmiZ**l**** a**Z**y****^ h**af**noZ**** . I**hke** a**Zd**ulby**** i**mkd**gh**** deZiZ**Z** b **b**bb****
 i**h**g**** **h** i**hbkoh**bl**** **ukhd**h**** kZl**b** h**af**noZ**** . I**h** w**lhf** l**fiZ**lmZ**** h**af**noZ****
 i**dh** h**azklZ**l**** . < dh**g** lZdlZ kZl**by** \ p**beb**g**** q**a** n**h**km**g**m**** ih^ h**evrbf**
 Z**ebf** i**ukdbZ**lky**** lhieb**h** . I**h** i**ukdbZ**bb**** lhieb**h** f**edh** **ZkiuebZ**l**** -
 ky, i**frbZ**lky**** k h**yq**bf**** h**af**nohf**** \ p**beb**g**** b bkiZ**ylky** , h**Zamy** lhieb**h** -
 h**af**mr**gx****** k**fk**v**** .
 h**kieZ**bf**** k**fk**b**** i**h** **Z**hl**** **bZley** h**kmsk**l**eylky****** \ i**amevlZ**l**** **u** -
 kh**dh**h**** kZl**by** h**af**noZ**** h l**fiZ**lmj**** k**Zf**h**h**kieZ**bf****** k**fk**b**** . i**ukd** lhiebZ ,
 h ba**Z**g**** i**h**hc**** k**iurdb** , **Z**q**z**lky**** l**hevdh** \ dh**g** lZdlZ kZl**by** .
 I**hke** kh**Z**by**** lhieb**h**h**af**mr**g**c**** k**fk**b**** k**em**l**** i**h**pkk**** **Zkr**by**** b h**q**b****-
 kldZ p**beb**g**** hl i**h**md**lh** \ kh**Z**by**** q**a** i**mkd**hc**** deZiZ**g** .
 k**ezkhZ**gf**** hldj**l**bf**** b a**Zd**ul**bf****** i**mkd**go**** b i**mkd**go**** deZiZ**g** \
 mi**Z**eyl**** fo**Z**gaf**** **ZahZki**g**by** .
 K **ZqZehf** **Z**h**lu** **Z** **bZleyo** >-246.2, >-246.3, >-246.4 i**h**h**lky** \ **c** -
 kl**b** l**mh**dh**fi**kkhj**** a**Zkql** b**kihevahZ**by**** w**bb** i**mkd**go**** **Zah** \ .
 I**h**^ h**y**gh**** **ZkhkZ** kbkl**fu** h**oeZ**by**** **bZley** h**kmsk**l**eylky****** ih -
 k**ll**hf**** **h**g**c** i**Z**qb**** hl rdbZ , m**klZ**h**gh****** **Z** **hkd** dh**egZl**h**** ZeZ ,
 d rdb**m** , m**klZ**h**gfm****** **Z** **Zebd** h**y**gh**** **ZkhkZ** .
 k **u**Z**luz**fhc**** **bZlef** w**bb** (f**hsg**klb****) ey i**h**Z**** **Z** -
 l**hZ** **baev** -wed**l**h**qk**dhc**** m**klZ**h**db****** (baev -**Zl**hZ****) i**h**ba**h**lky**** q**a** mi**j**n****-
hx**** f**mn**lm****, kh**h**gxsmx**** dh**egZluc** Ze **baey** b Ze **h**l**hZ** **Zl**hZ**** .
 M**klZ**h**g**c**** **Z** lhieb**h** **Zkhk** **ukhd**h**** **Z**g**by** h**h**bf**g**c**** f -
 o**Z**g**qk**dbc**** i**neyl**h**** i**yf**h**** **cklby** h**kiq**by**** **bZlex** m**klZ**h**g******
 a**Z**q**by**** : **klZ**h**g**klb**** q**Zkl**h**lu** **Z**sg**by** **Z** m**klZ**h**g**rfky**** **h**f**** , a**Z**h**kZ****

qZklhlu Ŷsby b éblevġklib iphġġh ipkkZ ġnebhŶby ihke_ fġġġ kġkZ beb ŶġkZ ġfbŶevġc Ŷġmadb . Imkd ŶŶley ipbahġlky imlf ipŶby Ŷsby dhegZlhfm Ŷem wedlġklZġġhf qġ fZohġd , mklZġġc Ŷ neZġ_ dhegZlhġ ŶeZ .

1.1.4.3 ~~D~~ b ~~Z~~

Ŷ ġġġġy ġZfġgo Ŷġl ih ipġ b ġnebhġ_ aZahŶ f_ - ġ ġcdhf dhġfukeZ b ġphf deZiZZ , Ŷihegġuo ip ġġġġdhf ġġem_ bŶġb b ġġ , \ ABI ŶŶley ipdeZġZġky bġġmfġ khŶZkġ ġġ - ġ ġġġpu ; .2 ġġġy ; .

1.1.5 ~~M~~ ~~Z~~

ġ ġbfġc ġġġqd_ dZġġ ŶŶley , aZġġc Ŷ ġhd_ pbebh\ mdZaZġ:

- ġbfġZġ_ baġġġley b ġ ġhŶġc aZġ ;
- dh^ ih HDI ġ , HDI ;
- fhġndZpby ŶŶley b ġġġġġ_ ŶŶley ih =HK 10150;
- ġfbŶevŶy fhġġlv ;
- qZklhŶŶsby , khġġġġmsZy ġfbŶevġc fhġġlv ;
- fZkkZŶŶley ;
- ihŶdhġc ipbahġġc ġġ ŶŶley ;
- ġ^ ŶimkdZ
- ġġkv «ġZġ \ ;eZġġb ».

ġZ ġhd_ pbebh\ mdZaZġġdhġc ipbahġġc ġġ , bġq - ġc ihŶdhġfm ipbahġġfm ġġm , mdZaZġfm Ŷ ġbfġc ġġġqd_ . ŶŶlev , Ŷ dhġġc ŶZġ ŶpbhŶevġ_ ġġndZlu khġġġby ġ beb ġġġ ġ= , bġ aZġb khġġġby ġZpbhŶevġc kbġġfu ġġndZpbb ġġġ , ŶZġbo ġġndZġ .

ġZġġġy fZġbhġZ ŶŶley Ŷihegġky \ khġġġb k =HK 14192-96.

ġkh[fZġbhġb ġġġbZġ _ khoŶġġv Ŷ iph^ ġZġġġġ - ġy , oŶġy b wdkiemZġpbbŶŶlec .

1.1.6 ~~M~~

ġ ġZġġġġb ŶŶlec \ aZġġuo Ŷġġo , dhġġo beb ġġġo ZġhfZrbŶo ŶŶleb mklZġġbZġky Ŷ ihġZġb ih ġġZf aZġ - Ŷ - baġġġley ŶŶlec .

ġ ġZġġġġb ŶŶlec \ ġġġhf ġZġġ (Zġfhġevġf , éġġġġf) ŶŶleb ġiZdhġZġky \ frdb ba ihebwlbeġġc iegb ih =HK 10354 b mklZġġbZġky Ŷ ihġZġb .

ŶŶleb , ihġZġyfu_ \ Ŷġġ k ġġġġdbf debfZġhf \ éġġġ' - ġo Ŷġġo , ġiZdhġZġky \ frdb ba ihebwlbeġġc iegb b Ŷġ_ ysbdb ih ġdmfŶpbb baġġġley ; ip ġZġġġġb \ dhġġo \ frdb ba ihebwlbeġġc iegb .

1.2.2 ~~W~~ ~~b~~ ~~W~~1.2.2.1 ~~W~~ ~~b~~

~~W~~ pbeb~~W~~\ yeylky kh~~W~~hc dhjmk~~W~~hc ~~W~~zevx ~~W~~zley b i~~W~~kl\ -
 eyl kh~~W~~hc kldmx qm~~W~~ngx hleb~~W~~m . < ~~W~~bdzevgo ~~W~~zklhqdz~~W~~o ~~W~~hdz mklz~~W~~\ -
 eg qluj ktf~~W~~ beva~~W~~ , ba~~W~~lh~~W~~eg ba kipbzev~~W~~h qm~~W~~ng .
 =bevaZ mklz~~W~~ebz~~W~~lky \ ~~W~~hd pbeb~~W~~\ ih ~~W~~nf p~~W~~bjmxsf ihykZf :
~~W~~fm b ~~W~~fm . < ~~W~~g ihyk_ bevaZ aZdjeylky ~~W~~nhf , \ ~~W~~g - mi-
 ehlylky ~~W~~mfy ~~W~~abhufb dhevpZfb , ~~W~~afsgfb \ dz~~W~~dz~~W~~o ~~W~~hdz pbeb~~W~~g -
 h\ .

=beva~~W~~ ih ~~W~~mf~~W~~ ~~W~~zflj~~W~~ kh~~W~~bjmxlky ~~W~~z lp ~~W~~af~~W~~ jniu :
 hevrZy (;) , k~~W~~y (K) b fzeZy (F) . FZ~~W~~bdz~~W~~ jniu ~~W~~gkblky ~~W~~z aZoh~~W~~f
 dh~~W~~gk_ beva~~W~~ . ~~W~~af~~W~~ beva i~~W~~h \ ~~W~~z~~W~~ebp_ <.1 (I~~W~~be~~W~~g <). GZ~~W~~z -
 le_ mklz~~W~~ebz~~W~~lky beva~~W~~ h~~W~~hc ~~W~~af~~W~~ jniu .

F~~W~~m kldzfb ~~W~~hdz pbeb~~W~~\ b bevaZfb p~~W~~bjm~~W~~bjnl hoeZZxsZy
 b~~W~~dhklv .

Lh~~W~~ph~~W~~ klg b ihi~~W~~g_ i~~W~~h~~W~~db ~~W~~hdz pbeb~~W~~\ \ ~~W~~g qZklb
 bfxl i~~W~~be~~W~~ , i~~W~~zazqg_ ey h~~W~~zahZy hi~~W~~h dhegZlh~~W~~ ZeZ . GZ wlb
 i~~W~~be~~W~~ mklz~~W~~eg_ djrd b . I~~W~~be~~W~~ fkl_ k djrdZfb h~~W~~zamxl ihkleb ey
 dh~~W~~go ihfbi~~W~~dh\ . Ihkleb ih^ ~~W~~deZ~~W~~rb dh~~W~~go ihfbi~~W~~dh\ ~~W~~zklhqg
 k h~~W~~hc mklz~~W~~gdb \ k~~W~~h~~W~~ k djrdZfb dh~~W~~go ihfbi~~W~~dh\ , ihwlhfm fylv
 djrd b fklzfb g~~W~~vay .

;ehd pbeb~~W~~\ bfl_ ih~~W~~evgc fZkeygc dz~~W~~ze , hl dhlh~~W~~h ih ihi~~W~~g -
 g~~W~~f dz~~W~~zeZf fZkeh ihklmiZl d dh~~W~~g ihfbi~~W~~dzf dhegZlh~~W~~ ZeZ b ih^ -
 rbi~~W~~dzf ~~W~~zki~~W~~blev~~W~~h ZeZ .

Dh~~W~~ljndpbc ~~W~~hdz pbeb~~W~~\ ~~W~~zlec i~~W~~nkfh~~W~~g lp ihfbi~~W~~dz
~~W~~zki~~W~~blev~~W~~h ZeZ .

< ~~W~~g qZklb lh~~W~~hc b ql~~W~~hc hi~~W~~h dhegZlh~~W~~ ZeZ ey ~~W~~zlec
 >-246.2, >-246.3, >-246.4 mklz~~W~~eg_ nh~~W~~kgb , dhlh~~W~~ kemZl ey hoeZ~~W~~y
 ih~~W~~g kljnc fZkeZ .

GZ ~~W~~zjng~~W~~ ih~~W~~gklyo ~~W~~hdz pbeb~~W~~\ bfxlky h~~W~~zhlZg_ i~~W~~h~~W~~ -
 ehqg_ iehkdhklb ey dje~~W~~y fZkey~~W~~h nbev~~W~~z , h~~W~~h~~W~~ ~~W~~zkhkZ , nbev~~W~~h\
 j~~W~~hc b lh~~W~~hc hqbkldb lhiebZ , sb~~W~~z ~~W~~zki~~W~~by b ebklZ aZ~~W~~ .

1.2.2.2 ~~W~~ ~~b~~

~~W~~ pbeb~~W~~\ i~~W~~klzeyl kh~~W~~hc qm~~W~~ngx hleb~~W~~m , h ~~W~~ng~~W~~ ih -
 ehklyo dhlh~~W~~hc bfxlky ~~W~~mkdg_ b ~~W~~imkdg_ dz~~W~~zeu , aZdj~~W~~zfu_ deZiZ~~W~~zfb .
~~W~~mkdg_ dz~~W~~zeu - k b~~W~~huf i~~W~~nbef . ey h~~W~~kiqy h~~W~~h~~W~~ lieZ ~~W~~hehdZ
 pbeb~~W~~\ bfl_ ~~W~~ng_ iehklb , \ dhlh~~W~~jo p~~W~~bjm~~W~~bjnl hoeZZxsZy b^ -
 dhklv .

=hehdZ pbeb~~W~~\ bfl_ klz~~W~~g_ k~~W~~z deZiZ~~W~~g , ba~~W~~lh~~W~~eg_ ba Z~~W~~h -
 i~~W~~qh~~W~~h b ba~~W~~gkhklhcdh~~W~~h kieZ~~W~~ . GZ ~~W~~hehd_ pbeb~~W~~\ k~~W~~m mklz~~W~~ebz~~W~~lky
 klhcdh , hkv dh~~W~~fuke_ k dh~~W~~fukeZfb , djrdZ ~~W~~hehd_ , ~~W~~mkdg_ dheed~~W~~lhj b dhe-
 iZd djrd b , aZdj~~W~~zxsbc deZiZ~~W~~gc foZ~~W~~gaf . K eh~~W~~hc klh~~W~~g (kh klh~~W~~g lh-
 ieb~~W~~h~~W~~ ~~W~~zkhkZ) \ ~~W~~hehd_ mklz~~W~~eg_ qluj nh~~W~~kgb b qluj k~~W~~g ~~W~~dz~~W~~eb-
 Z~~W~~gy , Zk i~~W~~h~~W~~hc klh~~W~~g d ~~W~~hehd_ d~~W~~blky ~~W~~imkd~~W~~g_ dheed~~W~~lhj . ey miehlg -
 gy ~~W~~zafZ f~~W~~m ~~W~~hehd~~W~~hc b ~~W~~hdhf pbeb~~W~~\ mklz~~W~~eg_ i~~W~~hdeZdZ ba ~~W~~z~~W~~ -
 klh~~W~~h~~W~~ ieh~~W~~z , Zfb~~W~~h~~W~~h~~W~~ i~~W~~h~~W~~h~~W~~z~~W~~g~~W~~ klzevgf ebklhf . Hl~~W~~klby

\ ihdeZd_ ey beva pbeb\ b fZkeygh dZzeZ hdZghZg ebklhnc klZevx .
Ib khj_ bZley z aZh^ pbeb\ hklby ihdeZdb hiheglevg
hdZghZxlky nlhieZklhufb Zajgfb dhevpZfb .

1.2.2.3 ~~h~~ ~~h~~ ~~h~~

~~h~~ IZeyfb dphrbig -rZlmgh foZgafZ yeyxlky : dhegZ -
luc Ze , ihjg k ihjgfb dhevpZfb b iZevpZfb , rZlmg , dhg b rZlmg -
g_ ihfbigdb , fZohbd .

DhegZluc Z - klZevhc , bfl iyv dhgo b qluj rZlmg_ rcdB .
Hkh_ mkbeb_dhegZlhh ZeZ hkihgZlky qlujfy ihemdhevpZfb ba Zex-
fbghh kieZZ , mklZhegfb \ ZklhqdzO ehdZ pbeb\ b djrdb iyllh
dhgh ihfbigdZ . ey mfgry Zjnahd z dhg_ ihfbigdb hl
kbe bgbb z ihc , qlhnc , iyhnc b hkvfhc sdZO dhegZlhh ZeZ mklZ
ZebZxlky ihlhku . h b kaZb dhegZluc Ze miehlgky fZfZ -
fb . GZihc dhg ZeZ mklZZebZxlky rklj_ iphZ ZahZkihg
(rklj_ dhegZlhh ZeZ) , rklj_ iphZ fZkeygh ZkhkZ , rdb\ iphZ
hygh ZkhkZ b ZlhZ . GZaZhc neZg ZeZ dijlkky fZohbd .

DhegZluc Ze fhI bahZebZlvky b mklZZebZlvky z bZlev no
ihbahklgo Zafh\ (ghZeh\) . DhegZluc Ze , rZlmg_ b dhg_
rcdb dhlhgh bahlhcg ih Zafm lhh ghZez , bfl z ihc sd
hiheglevgx fZjbdm (IZebpZ <.2 ipehg <).

Ihrg bahZebZlky ba Zexfbghh kieZZ . < gs_ ihrg uihe -
z dzfZ khZgy . DZfZ khZgy kfsz hlhkblevg hkb ihrg . < p -
g qZklb ihrg bfl Ib dZgdB - \ iu_ \ mklZZebZxlky dhfikkb -
hg_ dhevpZ \ lvyx - fZkehktfg_ dhevph . Ih^ dZgdB dh_ dhfikkb -
hgh dhevpZ aZebZklZdZ ba kipbZevgh qmhz . < hrdZO ihrg Zklh -
qg hklby ih^ ihjhc iZep . Zafu ihrg ipg \ IZebp_ <.1
(Ipehg <).

Ihrg h bahlhcg ba qmhz . gg dhfikkbhg_ dhevph
uiheg ba ukhdhijqgh qmhz , \ kqbb bfl nhfm Zghdhc lzi_ -
pbb, kh_ dhfikkbhg_ dhevph dhgkh . GZ lhphhc ihghklb maZfdZ
dhfikkbhg_ dhevpZ bfxl fZjbdm «g » («LHJ ») . FZkehktfg_ dhevph
dhghZlhh lbiZ k ijbfg Zkrbplef .

kfZ mklZgdB ihrgo dhep ipz z jkmg_ 30.

Ihjh z - iheuc , bahlhcg ba ohfhgdehc klZeb . Hkh_ ij -
fsg_ iZevpZ \ hrdZO ihrg hZhgqZlky klhijgf dhevpZfb .

RZlmg - klZevhc , mlZhh kqby . < pgx hehd h aZikkhZ -
z lmedZ . ey kfZadb ihgh iZevpZ \ pg hehd_ rZlmz b lmed_ bf_ -
xlky hklby .

Zklhqdz ihkleb \ bg hehd_ rZlmz ih^ deZurb ihbahklky \
khj_ k djrdhc . Ihwhfm fglv djrdb rZlmh\ g himkdZlky . RZlmg b
djrdZ bfxl hZdh_ hfz , Zblu_ z bo ihghklyo . Dhf_ lhh , rZ -
lmg bfxl kh_ jniu ih fZkk_ pg b bg hehd . Hhazqg_
jniu ih fZkk_ Zghklky z lhphhc ihghklb pg hehd rZlmz . GZ
bae_ heg ulv mklZheg rZlmg hnc jniu .

deZurb h b h dhgZlhh z ba hf_ -
lZeebqkdhc iheku . GZbZleyo bkihevamxlky deZurb dhgo b rZlmg

ihfbigdh\ ñno Zafh\ \ khhlklb k hfbZehf rd dhegZlhh ZeZ .
 ey fhZ bZley inkfhlj lZd' qluj fhgo ZafZ deZû -
 rc .

FZohbd baħlhëg ba qmñZ, djblky d neZgm dhegZlhh ZeZ ħelZfb .
 GZfZohbd ZikkhZg klZevgc amqZluc p .

1.2.2.4

foZgaf khklhbl ba Zkiĕblevgħ ZeZ, ĩmkdgo
 b ĩmkdgo deZiZġ, ZlZd' lZec bo mklZġdb b ipħZ : lhedZlec, rLZġ,
 dhġfuke, ĩnebħħqgo bħ\ k ZcdZfb, lZehd k kmoZpdZfb, ĩmbg, klh-
 d b hkb dhġfuke .

Zkiĕblevgc Z lphihgc ipħblky \ ĕklb_ hl dhegZlhh
 ZeZ qa rklb Zkiĕby . IhfbigdhZfb Zkiĕblevgħ ZeZ kem
 Zl ĩb ĩmedb, aZikkhZg \ Zklhqdb ĕhdZ . ĩy ĩmedZ (kh klhġ
 ĩbeylhZ) - ba Zexfbħħ kieZZ bfl miħgc ĩj, mDZxsbc Zk -
 iĕblevgc Ze hl hkhħ ĩfsby, hklZevg_ ĩmedb qmñg_ .

LhedZleb klZevg_ . ZhqZy ipħklv lZeddb lhedZley ZieZeZ
 hlĕgf qmñgf b bfl knġqkdmx ipħklv ħevrhħ ZġmkZ (750 ff) .
 < ĩmevlZl_ ĩħ, qlh dmeZqdbZkiĕblevgħ ZeZ baħlhëg k ħevrbf
 Zdehgf, lhedZleb \ ĩpkk_ Zħlu khZxl ZsZlevġ ħġ .

RlZġ Z baħlhëg ba klZevgh ĩmldZ . KġqkdZy qZklv,
 ħġysZy ĩlj lhedZley, b qZrdZ rlZġ aZdZeg .

DhġfukeZ Z - klZevg_ , dZqZxlky Z hkb, mklZġegc Z qluġ
 klhcdZo. DZġb_ klhcd - ĩħrgc kldhklb . Hkv dhġfuke ĩheZy, bfl
 ħkfv ZġZevgo hlklbc ey ĩħZ fZkeZ d dhġfukeZf . ĩfsġ dh-
 ġfuke ħev hkb hZġqbZlky Zkiġfb ĩmbZfb .

ĩmkdg_ b ħ Z baħlhëg ba Zhġqgc klZeb. Hġ ĩ_ -
 fsZxlky \ ZizZyxsbo ĩmedZo, aZikkhZgo \ ħehdm pbebħ\ . DZ' -
 ũc deZiZg aZdjZlky ĩh^ ĕklbf ñno ĩmbg : Zmġc b ĩlg, dh-
 ĩj_ ħaĕklmxl Z deZiZg qa lZedm b kmoZpdb .

Miehlġlevg_ Z, mklZġegc Z ZizZyxsb_ ĩmedb deZiZ-
 ġ\, bkdexqZxl ĩhiZZġ_ fZkeZ \ pbebħ bZley b ĩmkdgc dheedħj q_-
 ĩ aZahj ĩm klġfb deZiZġ\ b ZizZyxsbf ĩmedZfb .

Rklb Zafsg \ dZj, hZahZġf sblhf Zkij -
 ĕby, ĩpdjef d ĕhdm pbebħ\, b djrdhc Zkiĕby .

KZkhZġy ZħlZ ĩhebħħ ZkhkZ ũkdhħ Zeby b foZgafZ Z -
 ahZkiĕby ħkiqbZlky mklZġdhc rklġ Zkiĕby ĩh fldZf \
 khhlklb k ħkmgħf 3.

1 - rklj žkičblevgh ZeZ; 2 - ihfmlhqzy rklj ; 3 - rklj dhegzlhh ZeZ; 4 rklj iphZ lhiebgh žkhkZ.

Đkmgd 3- kZ mklZgd rklj žkičgy .

1.2.2.5 K Ž

K kfZadb žZley , \ khhlklbb k žkmgZfb 4Z, 4[, 4\, 4] dhfb - ghZzy : qZklv fZec kfZauZlky ih^ Žebf , qZklv - žafabZbf .
Ihfbičdb dhegzlhh b žkičblevgh Žeh\ , lmedZ ihfmlhq - ģc rklj , foZġaf iphZ deZiZġ\ (dhhfukeu) b ihfbičd ZeZ lmh - dhfikkhZ (ž žZleyo >-246.2, >-246.3 >-246.4) kfZauZxlky ih^ Žebf hl fZkeygh žkhkZ. =bevau , ihjġ , ihjġ_ iZevpu , rIZġ , lhedZleb , dm eZqdb žkičblevgh ZeZ b iph^ lhiebgh žkhkZ kfZauZxlky žafaa - bZbf .

GZ žZleyo >-246.1 (Đkmgd 4Z), >-246.2, >-246.3 >-246.4 (Đkmgd 4[) mklZġġ ihġihlhqġc pġġc fZkeyġc nbevlj .

kafhZ mklZġZ ž žZleyo >-246.1 >-246.2, >-246.3 >-246.4 ihġ - ihlhqġh fZkeyġh nbevlZ k žahġf ĩnfZġf nbevlj -wefġhf (Đkm - ġd 4\) beb ihġihlhqġh fZkeyġh nbevlZ k žahġf ĩnfZġf nbevlj -wefġhf b bđhklġ -fZkeyġf liehhġdhf (Đkmgd 4]).

FZkeyġc žkhk 8 - rklġh lbiZ , hġkdpbhġc , dġblky ħelZfb d đurd_ ihġ dhġh ihfbičdZ . GZkhkihZl fZkeh ih iZlġđm b dZZ - eZf ħhdZ pbebġ\ \ pġġc nbevlj 13 (Đkmgd 4Z), \ dhlhġf hġ hqbsZlky hl ihklhġgo ipfkġ , ihđdlh\ baġkZ b hl ihđdlh\ žaehġy fZkeZ keġlb_ žZ b hdbkeġy .

1 dZj fZkeygc ; 2 Ze dhegZluc ; 3 Ze žkičblevgc ; 4 rklj ihfmlhq -
 žy ; 5 hčhbž fZkehaZebžy ; 6 ihčZ fZkeygh dZjZ ; 7 fZkehičfbd ; 8 žkhk
 fZkeygc ; 9 fZkeygc dZZe hkb dhjfuke ; 10 Žlqbd Žežy ; 11- lhiebgc žkhk ū -
 khdh Žežy ; 12 žbZlhj fZkeygc ; 13 pčhc fZkeygc nbevlj ; 14 deZiZg ij -
 hožblevgc ; 15 deZiZg kebhc ; 16 deZiZg ĩndpbhgc (žbZlhgc 17- lmčdhf -
 ičkhj ; 18 nhčmgb hoežy ihjg .

čkmčd 4[čfZ kbklfu kfZadb čZlec >-246.2, >-246.3, >-246.4

čZleb k žahčf nbevlj -wečhf ihečihlhqčh fZkeygh
 nbevlZ ,kofZ kfZadb ž čkmč 4\.

1 - dZj fZkeygc ; 2- Ze dhegZluc ; 3- Ze žkičblevgc ; 4- rklj ihfmlhqžy ;
 5 - hčhbž fZkehaZebžy ; 6 - ihčZ fZkeygh dZjZ ; 7 - fZkehičfbd ; 8 - žkhk fZkey-
 gc ; 9 fZkeygc dZZe hkb dhjfuke . 10 Žlqbd Žežy ; 11 lhiebgc žkhk ū khdh
 Žežy ; 12 žbZlhj fZkeygc ; 13 nbevlj fZkeygc ; 14 deZiZg ihožblevgc ;
 15 deZiZg ičmčdhc ; 16 deZiZg ĩndpbhgc ; 17* lmčdhfičkhj ; 18* nhčmgb ho-
 ežy ihjg ;

*- iha . 17,18 hlčmlčlčxl ž čZle >-246.1.

čkmčd 4\ čfZ kbklfu kfZadb k ĩnfZčf žahčf nbevlj -wečhf
 ihečihlhqčh fZkeygh nbevlZ

FZkeygc žkhk 8 qā fZkehipfbd 7 aZbZl fZkeh ba fZkeygh dZj-
 l 1 b ih dZzeZf \ ehd_ pbeb\ b dZzeZf dhjmkZ fZkeygh nbevlZ ihZ -
 l \ ihēihlhqgc fZkeygc nbevlj 13, \ dhlhf hg hqbsZlky hl ihklhgo
 ipfkc , ihmdlh\ baħkZ b hl ihmdlh\ žaehy fZkeZ kefb_ žy b
 hdbkegy . Ba fZkeygh nbevlZ hqbs_ fZkeh ihklmiZl \ žbZlhj 12 ēy
 hoeZgy . Ba fZkeygh žbZlhZ fZkeh ihklmiZl \ fZkeygx fZbklZev ž -
 Zley .

GZ **h** **h** **h** **h** **h**
h **h** **h** .
h imkd žZley ž ohehf fZke_, dhZ khijlbeb_ ihohx
 fZkeZ qā fZkeygc nbevlj ijrZl 0,13 0,17 FIZ , hldjZlky ijmkd -
 hc deZiZg 15 fZkeygh nbevlZ , ijmkdhc (žbZlhgc) deZiZg 16 fZkeygh
 žbZlhZ lZd' hldjZlky , b fZkeh, fbgy fZkeygc nbevlj b fZkeygc žbZ -
 lhj , ihklmiZl \ fZkeygx fZbklZev .

< dhjmk_ nbevlZ klhg ihoZblevgc jnebjfuc deZiZg 14. Hg
 iZaZqg ēy ihZby Zēgy fZkeZ \ fZhc fZkeygc fZbklZeb
 0,25...0,35 FIZ . Baūlhq_ fZkeh kebZlky qā deZiZg \ dZjj žZley .
 bZleb k žahgf nbevlj -wefhf ihēihlhqgh fZkeygh
 nbevlZ b bdklh -fZkeygf liehhfghdf , kofZ kbclfu kfZadb ž ž -
 kmg_ 4].

1 dZjj fZkeygc ; 2 Ze dhegZluc ; 3 Ze žkiēblevgc ; 4 rklj ihfmlhq -
 žy ; 5 hēhbZ fZkehaZebzy ; 6 ihdZ fZkeygh dZjZ ; 7 fZkehipfbd ; 8 žkhk
 fZkeygc ; 9 - fZkeygc dZze hkb dhhfuke ; 10 Zlqbd Zēgy ; 11- lhiebhc žkhk ūkh -
 dh Zēgy ; 12 bdklh -fZkeygc liehhfbd (L); 13 nbevlj fZkeygc ;
 14 deZiZg ihoZblevgc ; 15 deZiZg ijmkdhc ; 16 deZiZg ijmkdhc ; 17 lmj -
 dhfikkhj ; 18 nhkmb hoeZgy ihjg ;
 *- iha . 17,18 hlkmklxnl ž žZle_ >-246.1.

Bkmgd 4[kFZ kbclfu kfZadb k fmfZgf žahgf nbevlj -wefhf
 ihēihlhqgh fZkeygh nbevlZ b bdklh -fZkeygf liehhfghdf

FZkeygc žkhk 8 qā fZkehīpfd 7 aZbZl fZkeh ba fZkeygh dZj-
lZ 1 b ih dZzeZf \ ēhd_ pbeb\ b dZzeZf dhjmkZ fZkeygh nbevlZ ihZ -
l \ bđhklg -fZkeygc liehhfgd 12, Z aZlf \ iheghlhqgc fZkeygc
nbevlj 13, \ dhlhjf hg hqbsZlky hl ihklhgho īpfkc , ihfmdlh\ baḡkZ b
hl ihfmdlh\ Zaehgy fZkeZ keklb_ žZ b hdbkegy . Ba fZkeygh
nbevlZ hqbsg_ fZkeh ihklmiZl \ fZkeygx fZpklZev bZley .

Ijmkdg_ (īndpbhg_) deZiZg mklZheg :
- \ dhjmk_ bđhklg -fZkeygh liehhfgdZ - 16 (aZqg_ Zeby
kZZluZgy 0,15^{0.05} FIZ);

- \ fZkeygf nbevlj - 15 (aZqg_ Zeby kZZluZgy 0,15-0,2 FIZ);
Ib aZimkd_bZley ž ohehf fZke_, dhZ khijlbeḡ ihoh^ -
ḡx fZkeZ \ bđhklg -fZkeygf liehhfg_ iūrZl aZqg_ 0,15 0,2
FIZ , ijmkdḡc deZiZg hldjZlky , b fZkeh, fbḡy bđhklg -fZkeygc li -
ehhfgd , ihklmiZl \ fZkeygc nbevlj , Z īb khijlbeḡb \ fZkeygf
nbevlj 0,13 0,17 FIZ , hldjZlky ijmkdḡc deZiZg fZkeygh nbevlZ b
fZkeh, fbḡy fZkeygc nbevlj , ihklmiZl \ fZkeygx fZpklZev . Ijmkdg_
deZiZg īnebfnfu_ .

< dhjmk_ nbevlZ klhg ihoZblevgc īnebfnfuc deZiZg 14. Hg
iZaZqg ēy ihZgy Zeby fZkeZ \ ēZḡc fZkeygc fZpklZev
0,25...0,35 FIZ . Baīlhqg_ fZkeh kebZlky qā deZiZg \ dZjj_ bZley .

< kemqZ_qafgh aZkhgy nbevlhZevḡc fnZb , dhZ khijlbe_ -
ḡ_ fZkeygh nbevlZ klZghlky ūr_ 0,13...0,17 FIZ , ijmkdḡc deZiZg fZk-
eygh nbevlZ lZd' hldjZlky , b fZkeh, fbḡy fZkeygc nbevlj , ihklmiZl \
fZkeygx fZpklZev .

GZ **█** **█** **█** **█** **█**
ih **ih** **ih** .
Ba ēZḡc fZpklZev bZley ih dZzeZf \ ēhd_ pbeb\ fZkeh ihklm-
iZl dh kf dhgf ihfbīgdZf dhegZlhh b rcdZf Zkiēblevgh
Zeh\ . Hl dhḡo ihfbīgdh\ ih dZzeZf \ dhegZlhf Ze_ fZkeh ihklmiZl dh
kf rZlmgf ihfbīgdZf . Hl ihh dhgh ihfbīgdZ fZkeh ih kipb -
Zevgf dZzeZf ihklmiZl d lmedZf ihfmlhqc rklg b rklg īph -
Z lhiebgh žkhkZ, ZlZd' d lhieghfm žkhkm.

Zeb deZiZgh foZgafZ kfZauZxlky fZkeh f , ihklmiZxsf hl aZl
ihfbīgdZ Zkiēblevgh ZeZ ih dZzeZf \ ēhd_ , hehd_ pbeb\ ,
kēḡx \ IV klhcd_ dhjfuke h ḡlḡx ihehklv hkb dhjfuke b qā
hlklb_ d lmed_ dhjfukeZ , hl dhlhjc ih dZzem b f ž īnebghqgc bḡ
b rIZh .

FZkeh d ihfbīgdhfm maemlmhdhfīkKhZ (baeb >-246.2, >-246.3,
>-246.4) ihklmiZl ih ljmḡ , ihḡexḡc ž ūoh^ ba dhjmkZ fZkeygh
nbevlZ . Ba ihfbīgdhgh maeZlmhdhfīkKhZ fZkeh ih ljmḡ hlhblky \
fZkeygc dZjj_ .

Ba nhkmḡd 18 fZkeh ihZlky ž ihjḡ ēy bo hoeZgy .

1.2.2.6 **█** b Zḡ

█ iblZgy bZley , \ khhlklbb k dhfiedlZpbc , mdZaZḡc \
lZēbp_ 6, khklhbl ba lhiebgh žkhkZ, nhkmḡd , ljmḡ ḡadhgh Zeby , lhi -
ebhīghh\ ūkhdhgh Zeby , imkdgh dheedlhZ , ūimkdgh dheedlhZ ,

1 - lhiebgc Zhd ; 2 nbevlj jhc hqbkldb lhiebZ ; 3- nbevlj lhgc hqbkldb lhiebZ ; 4 lh-
 iebgc Zkhk khdh Zegy ; 5 lhiebhihZqbZxsbc Zkhk ; 6 ljmfb lhiebg_ u -
 khdh Zegy ; 7 ljmfb lhiebg_ gadhh Zegy ; 8 - ljmZ lhieby gadhh Zegy
 ey hhz baerdh\ lhiebZ ; 9 ljmZ hhz lhiebZ \ Zhd ; 10 hafmohhqbklblev ; 11 fh -
 gpbdehg ; 12 imkdgc dheedlhj ; 13 hehZ pbeb\ ; 14 nhkmgZ ; 15 kqZ ZdZebZ -
 by ; 16 - imkdgc dheedlhj ; 17 emrblev ; 18 lmjdhfjkhj .

Imkdg 5[kZ kbklfu iblZby vZley >-246.2.

1 - lhibgc Zd ; 2 nbevlj jhc hqbklb lhibZ ; 3- nbevlj lhgc hqbklb lhibZ ; 4 lh-
 iebgc Zkhk \khdh Zehy ; 5 lhibhhdZqbZxsbc Zkhk ; 6 lmb lhibg_ u -
 khdh Zehy ; 7 lmb lhibg_ gadh Zehy ; 8 - lmbZ lhibZy gadh Zehy
 ey hhz baebrdh\ lhibZ ; 9 lmbZ hhz lhibZ \ Zd ; 10 hafnohhqbklblev ; 11 fh -
 gpbdehg ; 12 imkdc dheedlhj ; 13 hehdZ pbebh\ ; 14 nhkmgZ ; 15 kqZ ZdzebZ -
 by ; 16 - imkdc dheedlhj ; 17 fmrblev ; 18 lmhdhfikkj ; 19 hoeZblev Zm -
 hqgh hafnoz .

bkmgd 5\ kZ kklfu iblZby vZlec >-246.3, >-246.4.

1.2.2.6.1 Lhibgc Zkhk \khdh Zehy

GZ vZleyo mklZzebZxlky lhibg_ Zkhku \khdh Zehy , mdZ
 aZg_ \ lZebp_ 6 b bahZg_ Z jkmgZo 6, 8.

Lhibgc Zkhk \khdh Zehy (LG×) iZeyl khhc fhqgx
 dhgljndpbx , khklhysmx ba qluq Zkhkgo kdpbc \ hgf dhjmk_ , bfxsmx
 dmeZqdhuc iph^ iemh\ b ahehlgdh_ hahZg_ pbdehc ihZqb lhi -
 ebZ .

LG» iZaqg ey ihZqb \ dZfu khZby pbeb\ bZley \ hi -
 eg fhfu fb habhZgo ihpbc lhiebZ ih^ ukhdbf Ze_ -
 bf .
 Iph^ dmeZqdhh ZeZ lhiebhh ZkhkZ hkmskleylky hl dhegZlhh
 ZeZ bZley qa rklb ZkiEby .
 aZbfq_ ihehb_ rklb iphZ lhiebhh ZkhkZ b ihemfmnl u ip -
 hZ nbdkbjnlky aZlydhc Zd , mklZzebZfuoz Z ribevdb ihemfmnl u . AZq_ -
 g_ fhfZ aZlydb Zd 35 50 G·f .

Ineylhj lhiebg o Zkhkh\ 776/WW2 bfl fnngx ijnbg ohehklhh
 ohZ (iha . 29 Bkmgd 6) ey ihurbg mklhcqbhklb Zhlu bZley Z fZdkb-
 fZevbc qZklhl_ Zsby ohehklhh ohZ .

Lhiebgc Zkhk hfog \ hbg ZZl k hbfgf foZbqkdbf
 Ineylhj ijfhj Oklby . Ineylhj bfl ZlfZlbqkdbc hfZlblev lhi -
 ebhZqb (Z imkdhuo hhhZo) .

IhdZqbZxsbc Zkhk mklZbeg Z dhjmk_ ZkhkZ ukhdhh Zeby b
 iphnlky wdkpbdhf dmeZqdhh ZeZ .

Zhq_ Zeb lhiebhh ZkhkZ kfZauZxlky ihlhqgf fZkehf , ihklm-
 iZxsbf ba kklfu kfZadb bZley . B\ fZkeZ ba dhjmkZ ZkhkZ hkmskleyl -
 lky \ dZlj bZley . gv mklZbegc Z bZlev Zkhk hphbfh aZ
 iheglv fZkehf \ dhebqkl\ 200...250 kf 3.

AZebdm fZkeZ ihbahdlv qa hklb_ kebZ fZkeZ (iha .27 Bkmgd 6) b
 ihdm aZebZ fZkeZ (iha .18 Bkmgd 7 b 8; iha .21 Bkmgd 7[]).

GZlhiebg o ZkhkZo ukhdhh Zeby mklZzebZlky iph^ juqZZ hk-
 lZbZ wedlfZbl hklZbZ :

LG»	WedlfZbl hklZbZ
776/WW2 (H:H «YA» , N) .	WF 19-02 (12 <)/ WF 19-03 (24 <)
PP4M10P1f-10/-20 (A:H «J:A » , N)	WF 19 (12 <)/WF 19-01(24 <)
PP4M10P1f («MOTORPAL», Qoby)	APE 35DZ/S/1/E/2-12V beb APE 37DZ/S/1/E/2-24V

GZlhiebgc Zkhk_ ukhdhh Zeby 4MLGWmklZbeg klhgc wed-
 lfZbl hklZbZ .

KfZ mklZbdb b ihdexqby wedlfZblZ hklZbZ Z LG» :
 776/WW2; PP4M10P1f-10/-20 iklZeg Z bkmg_ 7Z

KfZ ihdexqby wedlfZblZ hklZbZ Z LG» PP4M10P1f
 («MOTORPAL», Qoby) iklZeg Z bkmg_ 7\ .

1 - kdpby lhiebgh žkhkZ; 2 - lZėbqdZ ; 3 neZg ; 4 rihdZ ; 5 ihemfmnlZ iphZ ; 6 ZcdZ djeby ihemfmnl ; 7 dmeZqdhc Ze ;
 8 dhjmk lhiebgh žkhkZ; 9 lhiebhihdZqbZxsbc žkhk; 10 ihZxsbc dhgėg ; 11 hel ĩnebhdb imkdhc ihZqb ; 12 ju -
 qZ]hklZgZ ; 13 dhjmk ĩneylhZ ; 14 djrdZ ĩneylhZ ; 15 djrdZ kfhlhh exdZ; 16 hel ĩnebhdb fbhfZevhc qZklhlu Zsby ;
 17 hel ĩnebhdb fZdkbfZevhc qZklhlu Zsby ; 18 ZcdZ djeby kdpbc lhiebgh žkhkZ; 19 ijmkdhc deZiZg; 20 rlmpj ih^ -
 hZ lhiebZ ; 21 fZkehjh^ ; 22 rlmpj hlhZ lhiebZ hl ihdZqbZxsgh žkhkZ d nbevlm lhghc hqbklb lhiebZ ; 23 rlmpj ihhZ lhi -
 ebZ d ihdZqbZxsfm žkhkm; 24 juqZ] miZėgy ; 25 ihdZ bZ ĩnebhdb hfZevhc ihZqb lhiebZ ; 26 ihdZ kimkdZħafnoZ ;
 27 hlklb_ kebZ fZkeZ; 28 wedlhfZbl hklZgZ ; 29 ĩnj (dhjmk ĩnZ b ĩnZy ĩnbZ) ; 30 ZcdZ; 31 ihdeZdZ ; 32 ihdZ .

ĩkmgd 6 Lhiebgc žkhk ĩkhdhh Zėgy fh^ . 776/WW2 (H:H «YA> », N).

1 kdpby lhibhgh zkhkZ; 2 lZfbqdZ ; 3 neZg ; 4 rihgZ ; 5 ihemfmnlZ iphZ ;
 6 YcdZ djeby ihemfmnl ; 7 dmeZqdhuc Ze ; 8 dhjmk lhibhgh zkhkZ;
 9 lhibhghdZqbZxsbc zkhk ; 10 juqZ] hklZgZ ; 11 hel rlmpZ ihhZ lhibZ ;
 12 dhjmk hneylhZ ; 13 djrdZ hneylhZ ; 14 hel hnebhd fbhfZevgc qZklhlu
 Zsby ; 15 hel hnebhd fZdkbfZevgc qZklhlu Zsby ; 16 juqZ] miZegby ;
 17 ijmkgc deZiZg; 18 ihfZ aZebZ fZkeZ; 19 ihfZ kimkdZhafoZ ; 20 hel rlmp_
 Z ihhZ lhibZ d ihdZqbZxsfm zkhkm; 21 hel rlmpZ hhhZ lhibZ hl ihdZqb -
 Zxsh zkhkZ; 22 - hel djeby kdpbc lhibhgh zkhkZ; 23 fZkehjh^ ; 24 wedlh -
 fZbl hklZgZ .

bkmgd 7 - Lhibgc zkhk \khdh Zegby PP4M10P1f-10/-20
 (A:H «J:A », N)

1- lyZ , 2 ZcdZ F 6, 3 iZep , 4 rZcZ ydhj , 5 dhmo wedlfZpZ .
bkmgd 7Z- bZ mklZgdb b ihdexqby wedlfZpZ hklZgZ

1 kdpby lhibbh žkhkZ; 2 lZbbqdZ ; 3 neZg ; 4 rihgZ ; 5 ihemfmnlZ ipbZ ;
 6 ZcdZ djeby ihemfmnl ; 7 dmeZqdhuc Ze ; 8 dhjmk lhibbh žkhkZ;
 9 lhibhhdZqbZxsbc žkhk ; 10 juqZ] hklZhZ ; 11 hel rimpZ ihbZ lhibZ ;
 12 dhjmk imeylhZ ; 13 djrdZ imeylhZ ; 14 hel imebhd fbhfZevhc qZklhlu
 Zsby ; 15 hel imebhd fZdkbfZevhc qZklhlu Zsby ; 16 juqZ] miZeb ;
 18 ijmkgc deZiZg; 19 wedlhfZhl hklZhZ :P ; 20 dhehdZ ipkhbglevZy ;
 21 ihfZ aZebZ fZkeZ; 22 ihfZ kimkdZafmoZ ; 23 hel rimpZ ihbZ lhibZ d ih^ -
 dZqbZxsfm žkhkm; 24 hel rimpZ hlhZ lhibZ hl ihdZqbZxsh žkhkZ;
 25 - hel djeby kdpbc lhibbh žkhkZ; 26 ihfZ kebZ fZkeZ; 27 fZkehikh^ .
 Bkmgd 7[- Lhibhc žkhk ūkhdh Zeb ;

PP4M10P1f («MOTORPAL», Qoby)

J b k m @h-~~df~~Z ihdextqby wedlhfZ~~h~~lZ hklZ~~h~~gZ

1 kdpby lhiebgh žkhkZ; 2 lZėbqdZ ; 3 neZg ; 4 rihgZ ; 5 ihemfmnlZ iphZ ;
 6 ZcdZ djeby ihemfmnl ; 7 dmeZqdhuc Ze ; 8 dhjmk lhiebgh žkhkZ; 9 lhieb -
 ihđZqbZxsbc žkhk ; 10 dhjmk ĩneylhZ ; 11 ieZdZ nbdkZpbb žkhkgo kdpbc ; 12 hel
 klyhc , rZcZ ; 13 deZiZg ĩjmkdgc , hel djeby rmpZ lhiebĥĥhZ , hlysh
 hlkqg lhieb \ Zd ; 14 ĩhđZ ěy ĩimkdZ ĥamoZ ; 15 rmpj lhiebĥĥhZ , hly -
 ťsh lhieb hl lhiebĥĥđZqbZxsgh žkhkZ d nbevlj ĩhgc hqbklđb lhiebZ ; 16 rlm -
 pj ĩhđZ lhiebZ hl nbevlZ ĩhc hqbklđb lhiebZ ; 17 rmpj ĩhđZ lhiebZ hl nbevl -
 Z ĩhgc hqbklđb ; 18 ĩhđZ ěy aZebZ fZkeZ; 19 ĩhđZ ěy kebZ fZkeZ; 20 ĩqZ] hklZ -
 ĥZ ; 21 ĩqZ] ĩiZehy ; 22 - hel ĩnebĥđb fZdkbfZevhc qZklhlu Zshy ; 23 hel
 ĩnebĥđb fbhfZevhc qZklhlu Zshy ; 24 hel ĩnebĥđb ĥfbZevhc ĩhZqb lhi -
 ebZ ; 25 wedĥhfZĥl hklZĥZ ; 26* - khđlev wedĥqkđbc .

Ĥkmđd 8 Lhiebgc žkhk ũkhdhĥ Zehy 4MLGW(H:H «GAL: », N).

* - ĩkhđlevg Zafu wedĥqkđdh khđlev khhlĥklmxl :
 dheđ_ rluhc 502602 ih HK 37.003.032-88, dheđ_ ĥhc 602602 b ĥf
 ĥZf 203612 ih HK 37.003.032-88.

1.2.2.6.3 Nbevlj ĩhc hqbklđb lhiebZ

Nbevlj ĩhc hqbklđb lhiebZ kembl ěy ĩZplevhc hqbklđb lhieb -
 Z hl foZĥqkđbo ĩfkc b ĥú .

Nbevlj ĩhc hqbklđb khklhbl ba dhjmkZ , ĥZZley k kldhc , ZkkbZl_ -
 ey, klZdZŽ k ĩkihdhblef .

Ĥ\ ĥklhy ba nbevlZ ĩbahđlky qđ ĥklb_ \ ĥg qZklb klZdZ
 Ž , aZdjZfh_ ĩhđhc .

1.2.2.6.4 Nbevlj lhghc hqbklđb lhiebZ

Nbevlj lhghc hqbklđb lhiebZ (bkmgd 15) kembl ey hdhgZlevhc hqbklđb lhiebZ . Nbevlj lhghc hqbklđb Zahjc .

Lhiebh , iohoy kdhav rihju ĩfZgh nbevljxsh wefZ , hqbsZ - lky hl foZbqkđbo ĩpfkc . < gg qZklb dhjmkZ nbevlZ Zohđlky hli - klb_ k ĩfhc ey kebZ hlklhy .

ey mZegy hafnoZ ba kbklfu ĩblZgy ĩphđfh ĩiheglv ĩklby \ khhlklbb ki . 3.2.11.

1.2.2.6.5 hafmohhahsbc lZdl

hafmohhahsbc lZdl dexqZl hafmohhqbklblev b iZljndb , khđ - gxsb_ hafmohhqbklblev k:

- ĩmkdgf dheedlhjf (baev >-246.1), bkmgd 5Z;

- ĩmđdhfikkhjf b ĩmkdgf dheedlhjf (baeb >-246.2), bkmgd 5[;

- ĩmđdhfikkhjf , hoeZblef Zmhhgh hafnoZ b ĩmkdgf dheed - lhjf (baeb >-246.3, >-246.4) bkmgd 5\.

hafmohhqbklblev kembl ey hqbklđb kZkuZfh \ pbebĥ hafnoZ .

< khhlklbb klZebpc 6 Z baeb fhml mkZzebZlvky dhfbghZg - g_ hafmohhqbklbleb ĩno ĩbih\ :

- fhĥpbdehg k kmohcpĥhc hqbklđhc hafnoZ b hafmohhqbklblev k fZkeygc iuemehblef b fhđuf dZihĥuf ĩpkdpbhgf nbevljxsbf wefĥf .

DZZy kdpby nbevljxsh wefZ khklhbl ba dZihĥhc slbg Za - gh bZfZ .

hafmohhqbklblev ĩhh ĩbiZ bfl ĩp klmig hqbklđb. ĩhc klmigx kembl fhĥpbdehg , ĩhjc fZkeygc iuemehblev , ĩjvc - ĩpkdpb - hgc nbevljxsb wefĥ .

- fhĥpbdehg k kmohcpĥhc hqbklđhc hafnoZ b hafmohhqbklblev k ĩfZĥfb nbevljxsbfb wefZfb ba ĩpbZevgh ũkhdhihpkllh dZjh - Z .

hafmohhqbklblev ĩhh ĩbiZ lZd' bfl ĩp klmig hqbklđb. ĩhc klmigx hqbklđb kembl fhĥpbdehg , ĩhjc b ĩjvc - hkĥhc b dhĥevgc ĩfZĥ_ nbevljxsb_ wefĥ .

GZbZleyo >-246.3 b >-246.4 hafno ĩh^ ĩklbf Zahy , khaZZ_ - fh ĩmđdhfikkhjf bZley , iohoy qa hafmohhqbklblev , hqbsZlky hl iueb b ĩhklmiZl \ Zlevngx qZklv ĩmđdhfikkhZ , hldmZ ĩh^ Zē - bf (>-246.2) b, iohoy qa hoeZblev Zmhhgh hafnoZ (>-246.3, >-246.4), ĩhZlky \ pbebĥ bZley .

ey dhĥey aZ kljx aZkhĥ klb hafmohhqbklblev b ĩhĥy ĩphđfhklb ĩhĥy loqkđdh hķembZgy h ĩmkdgf lZdl_ bZ - ley mklZĥeg Zlqbd kbZebaZlhZ aZkhĥklb hafmohh nbevlZ . hafmohhqbklblev k ĩfZĥfb nbevljxsbfb wefZfb b Zlqbd kbZebaZlhZ aZkhĥklb mklZzebZl ĩhlplev .

ĩh fj aZkhĥy hafmohhqbklblev Zkl Zah h ĩmkdgf ĩmh - ĩhĥ^ b ĩp ĩklbhĥ ebqbg 6,5 dIZ kZZluZl kbZebaZlhj . ĩp kZZ - luZgb kbZebaZl hZ keml hķemblv hafmohhqbklblev .

1.2.2.7 K

hoeZby (bkmhd 9) aZdulhh lbiZ , k ipmblevhc pbjmev -
pbz hoeZZxsc bdkhb hl phhh zkhkZ. kphc zkhk iphdky
h Zsb debhuf fg hl rdbZ dhegZlhh ZeZ. KadZ "Eblhe -24" \
ihfbidhmx ihehklv zkhkZ aZehz ip khjd . < ihpkk_ wdkiemZIZpbb
kfZauZb_ ihfbidh\ g lfnlky .

LfiZlmjn hoeZZxsc bdkhb \ kbklf_ dhhebjmxl ih bklZgb -
hgfm lfhljn , Zlqbd dhlhh mklZgeg \ hehd_ pbeb\ . Dhf_ lhh ,
\ djrd_ dhjmkZ lfhlZIZ mklZgeg Zlqbd klhh kbZebaZlhZ ZZbc -
gc lfiZlmj_ hoeZZxsc bdkhb .

AZisZlky ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ -
~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ -
~~h~~ .

Lfh hoeZZxsc bdkhb \ kbklf_ hoeZby heZ ihf -
bZlvky \ iZzo hl 85" K h 95" K. e y mkdhby ihZ bZley ihke_
imkdZ b ZlfZlqbkdhh mebhZby lfiZlmhh bfZ ip Zaebqgo
ZmadZo b lfiZlmZo hdjnZxsh hafnoz kembl lfhlZl k lfiZlmhc
ZqZeZ hldjulby hkhhd deZiZZ 87-2° K.

1- hŷhc Źkhk; 2 - lfhklZl ; 3 fg iphZ hŷgh ŹkhkZ; 4 hbeylhj ; 5 jnZrdZ hoeZhy hehdb pbeb\ ; 6 jnZrdZ hoeZ-
 hy ehZ pbeb\ ; 7 hevaZ ehZ pbeb\ ; 8 dZgdb ey kebZ hoeZZxsc bdklb ; 9 iZljhd ; 10 ihZ aZebgc hphg ;
 11 klhc kbZebaZlhj ZZpcgc lfiZlmj hoeZZxsc bdklb ; 12 - mdZaZlev lfiZlmj hoeZZxsc bdklb ; 13 ZbZlhj .
 Bkmgd 9 kZ kklfu hoeZhy .

1.2.2.8 M

1.2.2.8.1 Lmhdhfi~~kkh~~khj

GZ~~le~~b >-246.2, >-246.3, >-246.4 mklZ~~eb~~Zlky ~~ne~~b~~nf~~uc Imj-
hdhfi~~kkh~~khj , bkihevamsbc wlx hlZhlZrbo Zah\ ey ZmZ hafnoz \
pbe~~b~~ baey .

I~~g~~bi Zhlu lmhdhfi~~kkh~~khZ aZdexqZlky \ lhf , qlh hlZhlZrb_ Z -
au ba pbe~~b~~\ ~~le~~ey ih^ Z~~eb~~f ihklmiZxl q~~a~~ uimkd~~g~~c dheedlhj \
meblh~~qg~~_ dZ~~eu~~ l~~mg~~ . Zkrbyykv , Zau ZsZxl jlhj , dhekh dhfi~~kkh~~khZ
dhlh~~h~~ q~~a~~ hafmohhqbkblev kZkuZl hafno b ihZl ih^ Z~~eb~~f \ pb-
e~~b~~ ~~le~~ey .

- 1 - dhekh l~~mg~~ kZehf ; 2 - dhjmk l~~mg~~ ; 3 - fhglmedZ ; 4 - fZkehhlZ~~lev~~ ; 5 - dhevph
wdkp~~q~~kd~~h~~_ ; 6 - dhekh dhfi~~kkh~~khZ ; 7 - ZcdZ kipbZevZy ; 8, 15 miehlg~~lev~~_ dhevpZ;
- 9 - bnnmahj ; 10 - djrdZ ; 11 - dhjmk dhfi~~kkh~~khZ ; 12 mih~~g~~c ihfbi~~gd~~ ; 13 lmedZ Zk -
ihZy ; 14 - dhjmk k~~g~~c (dhjmk ihfbi~~gd~~h\) .

bkmgd 10 Lmhdhfi~~kkh~~khj ~~ne~~b~~nf~~uc .

Lmhdhfi~~kkh~~khj , \ khhlklbb k bkm~~gd~~hf 10, uih~~g~~ ih kof_ : Z~~b~~ -
ZevZy p~~h~~klfblevZy l~~mg~~Z b p~~h~~g~~c~~ h~~g~~klmigZluc dhfik -
khj ip dh~~g~~hev~~g~~f Zkiheh~~g~~b dhek hl~~g~~kblev~~g~~ hihj .

QZklhlZ~~sgy~~ jlhZ , ihZqZ b Z~~eb~~_ Z~~g~~Zf~~h~~ hafnoz aZ~~pkyl~~ hl
b~~f~~Z Zhlu ~~le~~ey .

Dhjmk l~~mg~~ 2 lmhdhfi~~kkh~~khZ hlebl ba ukhdhij~~qgh~~ qm~~g~~Z . Ih -
lhqZy qZklv l~~mg~~ ey ihohZ hlZhlZrbo Zah\ hZahZ~~Z~~ dhjmkhf b dh-
ekhf l~~mg~~ .

Dhjmk dhfi~~kkh~~khZ 11 hlebl ba Zexfb~~gh~~h kieZZ , h ihlhqZy qZklv
hZahZ~~Z~~ dhjmkhf b dhekhf dhfi~~kkh~~khZ .

DhjmkZ l~~mg~~ b dhfi~~kkh~~khZ djylky d dhjmkm ihfbi~~gd~~h\ 14, hleb -
lhfm ba ukhdhij~~qgh~~ qm~~g~~Z .

Dhekh l~~mg~~ 1 hleblh ba Z~~h~~ij~~qgh~~h kieZZ b ipZ~~g~~ d Z~~em~~ jlhZ .

2.2.2 **h** , **h** **b** **b**
 , ihklmiZxsb_ ihl_hlex , aZdhk_hhZg **h** khd oZ_hby 6
 fkypl\ beb **h** 1 h^ . Dh_hg_hc khd dhk_hZpb_h mdZauZlky \ iZkih_h_ **h**
 hZlev . Igg hiZ_hpb_h ih Zkdhk_hZpb_h mdZaZg lZ_hbp_ 8.
 LZ_hbpZ 8

i/i	Igg hiZ _h pb _h	K j h d d h g k _ j \ Z p b h	
		1 h^	6 f _h .
	J Z k d h g k _ j Z p b y		
1	Zkqoeb _h lv h aev .	+	-
2	MZeb _h lv i _h ihfhs _h b h aev _h h lhieb _h Z dhk _h Zpb _h h _h _ fZkeh k _h Zjng _h o h dzrgo aZdhk _h hZgo ih - h gk _h c h Zley .	+	+
3	h lv aZ _h emrdb beb ihebwlbe _h mx iegm , aZ _h duZxsb_ h Zjng_ h _h klby h oehi _h h dheed _h lh _h Z , kZkuZxs_ - h dheed _h lh _h Z , dhjmkZ lfhklZIZ , iZljm _h Z h h _h h h - khkZ lm _h hdhfi _h kkh _h Z , kZim _h Z h Zley .	+	+
4	h lv q _h keb _h g_ h _h klby dZj _h Z h Zley , lhieb\ - hh hkhkZ hklZldb dhk_hZpb_hh_h fZkeZ.	+	-
5	h lv ba k _h klfu hoeZ _h by hklZldb dhk _h Zpb _h h _h h kl _h Z q _h keb _h g _h dZ _h gd .	+	-
6	I _h h _h h _h lv h Zlev d imkdm AZi _h Z _h lv dZj _h h Zl_ - ey, lhieb _h g _h h khk qbkluf fZkehf .	+	-
7	I _h dzqZlv k _h klf _h m lhieb _h h _h Zqb h khkhf jmq _h g _h ih _h Zq - db, mZeb\ ha _h mo ba nbev _h Z lh _h g _h c hqbkldb lhieb _h Z b h - eh _h db lhieb _h h _h h khkZ (kf . i . 3.2.10).	+	-
	J Z k d h g k _ j Z p b y h b		
8	Zkdhk _h Zpb _h x i _h deZ _h Z _h fuo d h Zlex k _h h _h qgo h gp i _h ba _h h _h lv i _h lb _h Z _h f l _h rvx , k _h fhq _h c mZc _h fkib _h h _h hf (=HK 3134-78), k ihke _h mxsb _h f i _h lb _h Z _h - f h kmoh.	+	+
9	Zkdhk _h Zpb _h x i _h deZ _h Z _h fuo h Zec i _h ba _h h _h lv \ fhxsf h klh _h kljncgf fl _h h _h f beb fl _h h _h f hdm _h Z - h by k ihke _h mxsc h jqc kmr _h dhc : -lfi _h Zlm _h Z fhxs _h h klh _h Z hl 60° K h 80° K; -lfi _h Zlm _h Z kmrdb hl 70° K h 80° K.	+	+

l j b f _ q Z g **h**Za_heu : Zkdhk_hZpby i .2.2.2; Dhk_hZpby (i_hh_hgi - Zpby) i .3.1.5 h_hgkylky d **h**Zleyf , ihklZeyfuf **h** aZ_hh^ - ba_hh_hh_hlev **h**g - **h**mk_hlZ_hhd .

I_h Zkdhk_hZpb_h , i_hh_hZpbb **h**Zley \ khklZ\ **h**mk_hlZ_hdb **h**h_hh_hh_h jndh_hh_hh_hZlvky mdZaZ_hgyfb , baeh_hg_hb \ **h**mdh_hh_hkl\ ih wdk iemZIZpbb **h** **h**mk_hlZ_hdm .

2.3.5

h gadhc lfiZlmj hdjmZxsh hafmoZ wdkiemZIZpbybZley mk
 ehgky . Qlhj hkiqblv kicgmx bZmx Zhlm h \ abfgc i -
 ph^ , dhlhjc ZqbZlky ip ihgbb lfiZlmj hdjmZxsh hafmoZ h
 iexk 5° K b g_ , aZfZhg ihhlhyl_ bZlev d iphm Z pf
 abfg wdkiemZIZpbb ey qh ihbl_ hqf_ logqkdh_ hkembZg_ ,
 hiheg\ h hiZpbyfb kahgh logqkdhh hkembZgy . bZlev he -
 g ulv hhjnhZg imkdhuf ihhZlef . AZihebl_ kbklfm hoeZgy
 bdklvx \ khhlklbb k LZfbc : .1 (Ipehg_ :) , ihyl_ khklhyg_
 Zddmfmeylhgo ZIZc_ , ihbabl_ bo ihAZydm ip ghbdfhklb (Zddmfme
 eylhg_ ZIZb heg_ ulv ihegklvx aZygf_) .
 Reb \ kbklf_ hoeZgy \ elgc iph^ bkihevahZeZkv hoeZZxszY
 bdklv , gZfZxszY ip gadhc lfiZlmj , lh ghbdfh ihplv _ Z
 fhahklhcdhklv b ip ghbdfhklb aZfblv .
 Ip iph^ Z pf abfg wdkiemZIZpbbipfgcl_ lhevdh abfg_
 khjZ fZkeZ b lhibZ \ khhlklbb k obffhlhehjqkdhc dZjhc (Ipehg_
 :) .

2.3.6

h fy Zhlu bZley kebl_ aZ ihdZaZgyfb ipjh\ , plhf u -
 oehigo Zah\ , ipkemrbZclkv d Zhl_ bZley . Ip ihyegb hfZev -
 go rmfh\ hklZgbl_ baev , uybl_ ipqbg_ bkiZgklb b mklZgl_ _ . I -
 gg hafhgo bkiZgklc baey \ ihpkk_ wdkiemZIZpbbb dhfZ -
 pbb ih cklbyf ip bo hagdgg ipg \ LZfbc_ 9 .
 LZfbcZ 9

h gg ihyegb	h kkh[mklZgy
-----------------------	----------------------

1

g

- 1.1 kafno \ lhibgc kbklf_ IhdZqZcl_ kbklfm Zkhkhf jnqgc ih^ -
dZqdb lhibZ . MklZgl_ ihRkh hafmoZ \
lhibgc kbklf_
- 1.2 GbkiZg lhibgc Zkhk kfb_ lhibgc Zkhk k bZley b hl -
izvl_ \ fZklkdmx ey fhZ
- 1.3 AZkhg lhibg_ nbevlj Ijfhcl_ nbevlj jnhc hqbklb lhibZ b
aZfbl_ nbevlj lhgc hqbklb lhibZ

2

g

h

- 2.1 AZkhpeky nbevljmxsbc wefg AZfbl_ nbevlj lhgc hqbklb lhibZ
- 2.2 GbkiZg nhkmg b uybl_ bkiZg_ nhkmg b , ijfhcl_
b hljnbjnc_
- 2.3 GiZbev g mklZgeg mhe MklZabl_ dhfufuc mhe hij -
hiy ijkdZ lhibZ gy ijkdZ lhibZ

Ihheg IZebpu 9

Gbkizgklv gg ihyeg	Kkh[mklZgy
2.4 Gbkizg lhibgc zkhk	Kfbl_ lhibgc zkhk k bZley b hl- iZvl_ \ fZklkdmx ey fhZ
2.5 Kabehkv Zeg zmZ	Kfbl_ lmhdhfkkhj k bZley b hliZvl_ \ fZklkdmx ey fhZ
2.6 GZjmrZ flbqgklv hoeZ- bley zmhqbh hafoZ	Hiebl_ ipqbg ZafibaZpbb b mklZgl_ - 3 h h h h
3.1 B h m b g fi :	
3.1.1 AZkhg hafmohhqbklblev bZley	Ihd_ logqkdh_ hkembZg_ ha - fmohhqbklblev
3.1.2 AZpkeZ bZ Zkiuebley nhj - kmgb	aybl_ gkiZgnx nhkmgm , ihfhcl_ beb aZfgl_ Zkiueblev , hlnbjncl_ nhkmgm
3.1.3 Gbkizg lhibgc zkhk	Kfbl_ lhibgc zkhk k bZley b hl- iZvl_ \ fZklkdmx ey fhZ
3.2 B h m b g fi :	
3.2.1 bZlev ZhlZI k iho - eZdf	Ihd_ bZlev , h fy Zflu ih^ - bZcl_ lfiZlmjn hoeZZxsc bdhklb \ iZzo 70-95qK
3.2.2 IhiZZg hu \ lhibh	AZfgl_ lhibh
3.2.3 Hlkmklml aZahj fm deZ- iZgfb b dhjfukeZfb	Hlnbjncl_ aZahj fm deZiZgfb b dhjfukeZfb
3.2.4 GiZbev g mklZgeg mhe hiy iukdZ lhibZ	MklZgbl_ dhfgufuc mhe hij - gy iukdZ lhibZ
3.3 B h m b g fi	
3.3.1 IhiZZg fZkeZ\ dZfm kh - Zgy \ amevlZI bagkZ ihjg - uo dhep , ihjg , beva	AZfgl_ bagrg_ ihjg_ dhevpZ, ihjg , beva
3.3.2 Baflhd fZkeZ\ dZjj bZ - ley	Kcl_ baflhd fZkeZ, mklZgb\ mhg ih pg fld_ klj fZkehfZ
4 h h h h	h
4.1 GhklZlhqg dhebqklh hoeZ- Zxsc bdhklb \ kbklf_ hoeZ- gy	becl_ hoeZZxsmx bdhklv \ ZbZ - lhj h hfZevgh mhg
4.2 AZyag kzjnb ZbZlhj	Hqbklbl_ ZbZlhj
4.3 G_ ihegklvx hldjZlky deZiZg lfhkIZIZ	AZfgl_ lfhkIZIZ
4.4 GhklZlhqg Zlyg f - g beylhZ	GZlygl_ fg
4.5 AZfZkebZg iphhh f - g beylhZ b rdbh\	Klv iphg_ fg , mZeblv keu fZkeZ k ihgklb fg b rdbh\

Ihheg IZebpu 9

Gbkizgklv ihye	Kkh[mklzby
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- 5** **6** **7** **8** **9**
- 5.1 Gbkizg Zlqbd beb mdZaZ AZfbl Zlqbd beb mdZaZlev Zebg ,
lev Zebg ip hphbfhklb , ihke_ ihjb Ze_ -
by fZkeZ dhhevvgf dhfiedlhf ip -
fh\
- 5.2 GZjmrZ flbqgklv kh- aybl_ fklh Zjmrby flbqgklb b
bgc fZkehihh\ hkkIZgbl_ -
- 5.3 Gbkizg fZkeygc zkhk aybl_ gkiZgklv b mklzbl_
- 5.4 Mhg fZkeZ \ dZjj bZ - hecl_ fZkeh h bg fldb kly
ley g_ himklbfhh fZkehFZ
- 5.5 AZZg_ ihoZblevgh Ihfhcl_ deZiZg b lmedm, hlnbjmcl_
deZiZg \ dhjmk_ fZkeygh Zeb_ \ kklf_ kfZadb
- 5.6 Ievgc bagk \ khij_ - Mklzbl_ gkiZgklv
byo rcd b dhegZlhh ZeZ -
dhg_ (rZlmg_) deZarb
- 6.1 Gbkizg imeylhj qZklhlu Gfeg hklZgbl_ bZlev ZZpc -
Zsby . gf klhi mklhcklhf beb hldexqbf
- 6.2 AZdebbZg_ pdb lhibgh ihZqb lhibZ . Kfbl_ lhibgc zkhk
zkhkZ b hliZvl_ \ fhg
- 6.3 IhiZZg_ fZkeZ \ mklhcklh Kfbl_ lmhdhfkhhj b hliZvl_ \
ZmZ qa miehly LDJ fhg
- 7.1 G_ hlnbjmcl_ fmgny Hlnbjmcl_ fmgnx injbn \ khhl-
ijnbz imeylhZ lklbb ki . 3.2.16.1
- 7.2 Gbki Zg imeylhj qZklhlu Kfbl_ lhibgc zkhk b hliZvl_ \
Zsby fhg
- 8.1 - K . Ipehg ?
- 9.1 **1** **2** **3** **4** **5** **6** **7** **8** **9**
- 9.1.1 KZy aZlydZ deff Zddmfma AZqbkbl_ Zdhgdb b aZlybl_ deffu
eylhZ beb hdbkeg_ Zdhgbdh\
ihhh\
- 9.1.2 ZajbeZkv Zddmfmeylhzy AZyb_ beb aZfbl_ Zddmfmeylhgx Z -
ZIZy g_ himklbfhh iEZ LZx
- 9.1.3 AZyagebkv dheedlhj b sl - Hqbkbl_ dheedlhj b slb
db
- 9.1.4 Iehohc dhZdl slhd k dhe- Kfbl_ klZji k bZley , aZqbkbl_
edlhhf . Bagk slhd hevr_ h - dheedlhj , mklzbl_ aZbkZg_ slhd beb
aZfbl_ bo, keb hg bagrg

Ihñeb_ lZëbpu 9

Gbkizhklv ihyeb_	Kkh[mklZby
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9.1.5 < ë_ klZjZ_ hñeb ih -
pñklb dhñZdlgo helh\ b dhg-
lZdlhc ieZklbg , dhñZdlbjmxsb_
ip ðexqbb

AZqbklbl_ dhñZdlu ë_ klZjZ_ beb mklZ
gbl_ dhñZdlg_ helu \ ðZo djr -
db, ihñ\ hñjñ] hkb g 180°, ZdhñZdl -
mñ ieZklbgñ mklZgbl_ hñZhc klhñ -
hc

9.1.6 are_ ba klhy_ ipñ^_ klZj_ -
Z

AZfñl_ ipñ^_ klZjZ_

9.2 h_ ð_ ð_ ð_ ð_ :
9.2.1 IpñZpZkv_ dhñZdlgy_ ieZ-
klbg_ d helZf_ dhñZdlgf_ ë_
klZjZ_

HklZgbl_ ðñlev_ , hldexqbl_ ðlZj_ b
ñihegl_ ðñlu_ ih i. 9.1.5

9.3 ð_ ð_ ð_ k ð_ ð_ , g ð_ ð_

9.3.1 Baehf_ amñ_ pZ_ fZohpñZ_

AZfñl_ p_ fZohpñZ_

9.3.2 are_ ba klhy_ ipñ^_ klZj_ -
Z

AZfñl_ ipñ^_ klZjZ_

9.4 d_ ð_ ð_ k ð_ (ð_ ð_ b ð_ ð_ -
ñ_)

9.4.1 Hñ_ mñZxsc_ hñhdb_ AZfñl_ ë_

9.4.2 Zayñ_ Zddmfmeylhñy_ ðlZj_

AZjñl_ beb aZfñl_ Zddmfmeylhñx_ ð -
lZj_

9.5 ð_ ð_ ð_ ð_ ð_ ð_

g ð_ \ ð_ k ð_ ð_

9.5.1 Lhphñc_ bañk_ aZluehñhc_ qZklb_ amñZlñh_ pZ_ fZohpñZ_

AZluemcl_ amñy_ pZ_ beb aZfñl_ p_ fZohpñZ_

9.5.2 AZñg_ rklñ_ ipñZ_ g_ ðem_ ðñhñ_ ba-aZhlkmlklby_ beb_ g_ -
dZqklhc_ kfZadb_

Hqbklblv_ ipñ^_ b ðe_ hl_ klZñc_ kfZadb;
gklb_ kfZadmPB:LBF_ -201/203/221

9.5.3 Lhphñc_ bañk_ aZluehñhc_ qZklb_ amñZlñh_ pZ_ rklñ_ ipñZ_

AZluemcl_ amñy_ beb aZfñl_ ipñ^_

10 ð

10.1 :f_ g_ ð_ ð_ ð_ ð_ l_ ð_ b_ ð_ _ ð_ ð_ ð_ :

10.1.1 Hñ_ iexkhñh_ ðñZ_ beb_ aZfudñg_ h_ g_ dhñmk_ ðñhñ_ ;

Hlkhñbl_ ðñjñblev_ , kiZycl_ b_ bah-
ebñcl_ fklh_ hññ_ . Bahebñcl_ fklh_ ihñy_ baheypbb_

10.1.2 Hñ_ pñb_ dZlñrdb_ ðafñ_ -
ñy_

Zabl_ ðñhj_ , kiZycl_ b_ bahebñcl_ fklh_ ihñy_ , Z_ ip_ ðafñklb_ mklZby_ ðññ_ ðñlZ_ , aZfñl_ dZ-
lñrdm_ ðafññy_

Ihheg_ IZebpu 9

Gbkizhklv gg ihyeb_	Kkh[mklZgy
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10.1.3 AZfudZg_ Z dhjmk Z - AZfgl_ klZlhj
lhZ hg_ ba nZa klZlhZ
10.1.4 Dhhdh_ aZfudZg_ uh\ kbehhh_ uijfbley beb ihfc
dh\ ijfhc b hZhg_ iheyg_ -
klb

10.1.5 Gbkizg_ meylhj Ziy - AZfgl_ meylhj Ziygy
gy

10.2 H g h b :

10.2.1 Hf\ ihh\ , bmsbo d Kycl_ b bahebjncl_ fklh ihgy
meylhj

10.2.2 Hf\ hg_ ba nZa klZlhZ AZfgl_ klZlhj

10.2.3 Fhdh_ aZfudZg_ h[- AZfgl_ klZlhj
fhldb klZlhZ

10.2.4 Fhdh_ aZfudZg_ h[- AZfgl_ dZlrmrdmhamgy
fhldb dZlrmrdm hamgy

10.2.5 Gbkizg_ hbg ba dh\ kbehhh_ uijfbley AZfgl_ uijfblevg_ mkljcklh

10.3 H H :

10.3.1 Gbkizg_ meylhj Ziy - AZfgl_ meylhj Ziygy
gy

10.3.2 AZfudZg_ Z dhjmk uhZ Bahebjncl_ fklh ihgy baheypbb
«R » meylhZ Ziygy

10.4 H :

10.4.1 IhkdZevauZg_ iphh Hhnebjncl_ Zlyg_ iphh f -
fg beb qafg_ h Zlyg_ g

2.3.7 H H b H h

h hkiqgy ahizkbc Zflu b imigy kqZklgo kemqZ
h fy wdkiemZIZpbbb logqkdhh hkembyg vZley uihcgcl_ ke_-
mxsb_ izbeZ :

- ihyl_ khklhyg_ aZafegy vZley ;
- ipklmiZcl_ d Zhl_ lhevdh ihke_ bamqgy mkljcklZ b izbe wdkiemZ

Izpbv vZley ;

- g himkdZcl_ Zhlm daev -ZlhZ k gkiZgf vZlef ;
- g imkdZcl_ vZlev w h mklZgd \ aZdulhf ihfsgb k iehohc

heypbc ;

- logqkdh_ hkembyg_ b mklZg_ gkiZgkcl_ ihbahbl_ ip

ZhlZxsf vZle_ ;

- h baZg_ hhh\ ebpZ b jnd ihdm hchbg ZvZlhZ Z hjqf

vZle_ hldjZcl_ , ihevamykvjndZbpc beb lyidhc ;

- fhZ' b fhZ' bZley ihbahBl_ ip ihfhsb ljkZ , aZqZegh
aZ jif -helu , bfxsbky Z bZle_ (kofZ kljihdb bZley khZkx
Ipehx @);
- g ihevamclkv hldjuluf hf ey ihZ lhibhijh\ b fZkeygh
dZjZ bZley \ ohehg_ fy hZ ;
- kebl_ , qlh_ h fy Zhlu bZley fbab umkdhg dheedlhZ ,
lmhdhfiikhZ b emrbley g ueh edhhkieZfgxsbody fZlZeh\ ;
- aZiZdm hjq_ -kfZahqgfb fZlZZeZfb ihbahBl_ foZgabjZgf
kihkhf k khxgf izbe ihZhc ahiZkklb ;
- keb\ lhibZ ip aZihegb lhibhc kbklfu (ip ihdZqd_) ihbah -
Bl_ lhevdh \ fdhklv ;
- g ihhZcl_ kZkuZfuc hafno if hafnohhqbklblef hldjuluf
ieZfg ;
- g imkdZcl_ bZlev k gZihegc hoeZZxsc bdklvx kbklfhc
hoeZgy ;
- ihke_ hklZgdb bZley udexqbl_ udexqZlev Zddmfmeylhgo ZIZ -
j .

2.4 | **h** **h**

< kemqZ_ZZjb fehg hklZgbl_ bZlev udexqgf ihZqb lhi -
ebZ .

< qauqZhc kblmZpbbip hagdhgb Z bZle_ hqZZ ieZfg , aZ
kuivl_ h ikdhf , Zdhcl_ hhf , frdhbg beb fhc iehlgc ldZgx .
Bkihevamcl_ medbkehlgc hmrblev .

G_ Z h h h .

Reb qZklhlZ Zsby dhegZlhh ZeZ bZley qafg mebbqbZlky
ip Zh_ bZley h Zmadb , («bZlev b_ \ Zabk »), hklZgbl_ bZ -
lev ZZpcgf klhi mklhcklhf beb hldexqgf wedlhfZhlZ hklZgZ (j -
qZ] hklZgZ \ ihehg «klhi ») ip dhlhf ihZqZ lhibZ idZsZ .

Reb ih dZdbf ebh ipqbZf mdZaZg_ cklby g ip eb d gZf eb -
levfm hklZgm bZley , hphdfh kglv fhgpbdehg k hafnohhqbklbley
b idjulv ipfgx ljmfn hafnohhqbklbley iehkdbf ifhf (ieZklbgc ,
dhc b l.i.).

k h h h h h h -

h h h h h .
k cklby ih idZsbx **h** hZeyfhf hfZ Zhlu bZley
neg uieglvky hizlbg ey ihZsby uohZ ba klhy bZley .

3.1.1.2 ~~W~~
LZëbpZ 11

~~d~~ ~~b~~ ~~W~~ ~~W~~

k^ logqkdhh hķembZgy	K h k l Z d ZebnbdZpby hķembZxsh ikhzeZ
LH LH-1; 2LH-1; LH-2; E ; HA L H3; 2LH-3	HiZlhj wĥmklZĥdb kZy 3 4 ZajZ , bfxsbc hĥlogqkdmx ihĥlh\ - dmih ihZff_ hĥnqby kekZĥ , aZxsbc mklĥcklh b ipĥbi ĥklby ĥZley >-246 beb hiZlhj wĥmk - LZĥdb , iĥrfbc hĥnqĥ b bfxsbc ipĥĥgx dZebnbdZpby ih hķembZĥx b fhĥm ĥaev - Zlhj\ Fhlĥkl 4 5 ZajZ beb dZebnbpĥhZgc kipbZebkl ba kipbZebabhZĥh pĥZ ih hķembZĥx Zĥh lbiZ ĥZley b kekZy 3 4 ZajZ , bfxsbc hĥlog - qkdmx ihĥlhĥm ih ihZff_ hĥnqby kekZĥ , aZx - sbc mklĥcklh b ipĥbi ĥklby ĥZley >-246 beb hiZlhj wĥmklZĥdb , iĥrfbc hĥnqĥ b bfx - sbc ipĥĥgx dZebnbdZpby ih hķembZĥx b j - fhĥm ĥaev -Zlhj\

3.1.1.3 ~~W~~ ~~d~~ ~~W~~ ~~Z~~ ~~W~~

~~W~~ , ihēZsbc logqkdhfm hķembZĥx , ĥeg ũlv ihĥ -
 gn logqkdhfm hkfhln k pevx ũyēgy fkl ihlqdb lhiebZ b fZkeZ, dh-
 lhj_ ihke_ hqbkldb hiēblv lĥĥ .
 Ihke_ logqkdhh hkfhlZ ĥZlev ihZlky hqbkld_ b jnqĥc fhcd_
 fhxsbf kĥlZfb .

ey ũihegy hiēĥh bZ ĥebĥĥqgo Zhl , ihĥĥfuō
 ip logqkdhf hķembZĥb , ĥZlev ĥĥĥĥfh ihjv ĥ ĥĥĥĥfh
 lfiZlmĥh ĥfZ \ khhlĥklb k mdZaZgyfb Zklhysĥ jndĥĥlZ .
 D logqkdhfm hķembZĥx keĥl ipklmiZlv ihke_ hkfhlZ b ihfy' -
 db hkeZēgo djeĥc , ũyēgo ip hkfhlj .
 Iĥg hķĥgo b ĥēbjmxsbo =K \ LZëbp_ : .1 (Iĥēĥ_ :) .

3.1.2 ~~W~~ ~~W~~

hķiqby ĥhiZkĥc Zĥlu b ĥĥĥy ĥqZklgo kemqZ\
 h ũy logqkdhh hķembZgy ĥZley khēxZcl_ keĥxsbc_ iZbeZ :
 - fhcdm ihbahĥlv k khēxĥf fj wdheĥĥqkdhc ĥhiZkĥklb b k bk-
 ihevahZĥf bĥĥmZevgo kĥl\ aZsblu ēy jnd ;
 - g aZimkdZcl_ ĥZlev \ aZĥlhf ihfsĥb kiehoĥ ĥēypbc ;
 - logqkdh_ hķembZĥ_ b mklZĥ_ ĥkiZĥklc ihbahĥl_ ip
 ZhlZxsf ĥZle_ ;
 - h baZĥ_ hĥh\ ebpZ b jnd ihĥm ĥēĥĥg ZbZlhZ Z ĥjyqf
 ĥZle_ hldjZcl_ , ihevamykvjndZĥpc beb ljidhc ;
 - ipkihĥēgy , bkihevamfu_ \ Zhl_ , ĥeg ũlv \ bkiZĥf khklhy-
 ĥb ;
 - Zĥqbc bĥljmfĥ ĥeg ũlv bkiZĥf b khhlĥklĥxsh ZafZ ;

- éy hkfhZ bkihevahZlv ihkg_ klbevdb Ziybf
 g ur_ 24 <;
 - keb\ lhibZ ip aZihegb lhibgc kbklfu (ip ihdZqd_) ijbah -
 dl_ lhevdh \ fdhklv ;
 - keb\ fZkeZ b dhgZpbhgo khklZh\ ijbahdlv lhevdh \ fdhklb ;
 - g himkdZcl_ ihebZ =K Z Zhf fkl_ ;
 - Zhf_ fklh ip ihgb logqkdh hķembZgy heh ulv
 hhjnhZg kZlZfb ihZhlmrby ;

3.1.3 ~~h~~ ~~b~~ ~~h~~ ~~h~~
 3.1.3.1 ~~H~~ ~~h~~ ~~b~~ ~~h~~ ~~h~~ ~~h~~

~~h~~ 12

GZbfhZg_ Zhl	b^ logqkdh hķembZgy							
	? L	H L Hl	2LH-1	LH-2	LH-3	2LH-3	E	HA
1 Ihyl_ khklhyg_ aZaf - eby bZley	+	+	+	+	+	+		
2 Ihyl_ mhg fZkeZ\ dZji bZley	+	+	+	+	+	+		
3 Ihyl_ mhg hoeZ' - Zxsc bdklb \ kbklf_ hoeZgy	+	+	+	+	+	+		
4 kcl_ hklhc ba nbevlZ jhc hqbklb lhibZ		+	+	+	+	+		
5*Ihl_ mhg b kh-klhyg_ fZkeZ\ ihng ha - fhohqbklbley		+	+	+	+	+		
6 Ihyl_ Zlyg_ fg hbeylhZ		+	+	+	+	+		
7 Hqbklbl_ hlhj phf - gh fZkeygh nbevlZ			+	+	+	+		
8***AZfgl_ fZkeygc nbevlj			+	+	+	+		
9 AZfgl_ fZkeh \ dZji b - aey			+	+	+	+		
10 kcl_ hklhc ba nbevlZ lhgc hqbklb lhibZ			+	+	+	+		
11 Ihdl_ hķembZg_ hafnohhqbklbley				+	+	+		
12 Ihyl_ flbqgklv ko khbgc hafnohhqb - klbley b imkdgh lZdlZ				+	+	+		
13Ihyl_ aZlydm helh\ djeby hehd pbeb\					+	+		

Ip gphbfhklb , ey hiyby logqkdh khklhyby maeh\ b NZ -
ec (ihfbibdh_ mau, fg_ iZqb , Zeu), g bfxsbo hhsgo
ihdZaZlec , logqkdh_ khklhyb_ hiyxl bafbf Zafgo iZZfl -
h\ (aZah\ , ZaZ , exnh\) beb hijufbf , hkfhlf .
k_ bkiZklb , hZmg_ ip ihbb logqkdh bZklb -
hZby , heg ulv mklZg ihbf ldmsl beb dZiblZevgh fhg -
LZ.

3.1.5 D (U)

< aZpkbfhklb hl bZ ihklZdb , hhhgh hhhhf beb dhgzdlhf ,
bZleb , ihklmiZxsb_ ihplex , aZdhghZg Z khd 6 fkypl_ beb Z
hdg h^ . Dhghc khd dhgzpbb mdZauZlky \ izkihj_ Z bZlev .
Ip oZgb bZley he_ mdZaZgh \ izkihj_ khdZ dhgzpbb hg
heg ulv ihnl iihgzpbb .
Iihgzpby bZley ihke_ rklbfkyqgh oZgy heZ ihba -
hblvky khdhf Z hdg h^ . Ihgh_ ipfg_ rklbfkyqhc dhgzpbb
g himkdZlky .

hnl ihfblv , qh ihke_ aZimkdZbZley ihkohbl Zkdhgzpby
h mlgo ihehklc , kbklf hoeZgy b ihZqb lhibZ .

3.1.5.1 h Z b b h

3.1.5.1.1 Dhgzpby mlgo ihehklc b khqgo bhp bZley , Z
lZd_ h Zmg_ hZrgo ihpklc ihbahlky ihfuhqg -
dhgzpbgf fZkehf ;eZdhj :G -L LM J 03535026.291-97 beb fhghf
fZkehf ih =HK 8581-78, dhgfuf ey baey , k15 25% ipkZdb :DHJ -1
=HK 15171-78.

D fhghfm fZkem\ kdhevdh ipfh\ (ip bghbf ifrbZb
h ihemqy hghc kfk) hZblv ipkZdm :DHJ -1. Hghklv kfk
hiyly hklmlklbf qgo beb lfh - dhqgo Zahh\ Z kljm_ kfk ,
kldZxsc k frZedb .

I_ ipfg_ fZkeh ;eZdhj :G -L gphbfh lsZlevgh ifrZlv .
IhZb_ fZkeZ ;eZdhj :G -L g ihbahlky . < abfg fy , ip aZjnk_ -
Zgb fZkeZ, himkdZlky h ihh_ h 80°K.

3.1.5.1.2 Dhgzpby lhibgc kbklfu (lhibhjh_ , lhibg_ -
nbevlj , nhkmb , lhibgc Zkhk) ihbahlky dhgzpbgc kfkvx b -
aevgh lhibZ ih =HK 305-82 k 5 10% ipkZdb :DHJ -1.

D baevghfm lhibm \ kdhevdh ipfh\ (ip bghbf ifrbZ -
gb h ihemqy hghc kfk) hZblv ipkZdm :DHJ -1. Hghklv
kfk hiyly hklmlklbf qgo beb lfh - dhqgo Zahh\ Z kljm_ -
kfk , kldZxsc k frZedb .

3.1.5.1.3 Dhgzpby kbklfu hoeZgy bZley ihbahlky aZjns -
gf hgf Zklghf ohfZlh\ kemxsh khklZZ (\]/e):

- bpbg =HK 6823-77 - 800;
- dZebc nojhfhdbkeuc =HK 4220-75 - 30 50;
- khZ dZevpbghZgy =HK 5100-85 - 6 10;
- hZ iblvZy =HK 2874-82 - 140 165

ey ihhheby ZkhhZ khZ iZplevg Zkhhjky \ liehc h^
b ihke_ hkluZby hdky \ dhghjxsbz Zkhhj .

3.1.5.2 ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~

3.1.5.2.1 gily dhgzpby .

I¹ dhgzpbc keblv fZkeh ba dZjZ ~~1~~ Zley , lhibgh ZkhkZ b
hoeZZxsmx bdklv ba kbklfu hoeZby .

AZeblv fZkeh ;eZdhj :G -L \ dZjj ~~1~~ Zley ih dhhevg_ mh~~1~~ , Z\
ihhklv jneylhZ lhibgh ZkhkZ g fg 150 Zffh\ .

AZiheglv kbklfm hoeZby dhghjxsbz Zkhhhf .
~~1~~ lhibh ba nbevlZ jhc hqbklb. Ihkh~~1~~ d fklm ihhZ
lhibZ Z nbevlj jhc hqbklb reZg hl fdhklb k dhgzpbhg~~1~~ kfkvx .

~~1~~ lhibh ba nbevlZ lhghc hqbklb .
AZiheglv lhibgh kbklfm dhgzpbhg~~1~~ kfkvx iiegh\ ~~1~~ klby \
khhllklb ki . 3.2.11.

Ihdjmlbv ~~1~~ Zlev ~~1~~ ihZqb lhibZ imlf l~~1~~ Zahhh ~~1~~ dexqby
klZjZ k bZehf fn ~~1~~ dexqbyfb 1 2 fbglu . I~~1~~ hbelevghklv dZ-
hh ~~1~~ dexqby 15 kdm~~1~~ .

~~1~~ fhghpdehg hafmohhqbklbley (ip ~~1~~ Zebqbb) b aZ~~1~~ mrblv kZku -
Zxs_ hklb_ hafmohhqbklbley beb Imhdhfi~~1~~ khZ dheizdhf . IhklZblv
jqZ] ihZqb lhibZ \ ieh~~1~~ fZdkbfZevgc ihZqb b ihdjmlbv ~~1~~ Zlev
klZjhf \ lq~~1~~ 15 kdm~~1~~ ey ihZqb dhgzpbhg~~1~~ kfk~~1~~ \ pbe~~1~~ ~~1~~ -
Zley .

Ihkh~~1~~ reZg hl nbevlZ jhc hqbklb lhibZ .
~~1~~ dhgzpbhg_ fZkeh ba fZkey~~1~~ dZjZ b jneylhZ lhibgh
ZkhkZ.

~~1~~ dhgzpbhg~~1~~ kfk~~1~~ ba nbevlh\ jhc b lhghc hqbklb lhibZ .
~~1~~ dhgzpbhg~~1~~ Zkhhj ba kbklfu hoeZby qa keb~~1~~ dZ -
gd .

~~1~~ dheizd k hklby l~~1~~ hafmohhqbklbley b mklZ~~1~~ blv fhghp -
dehg, kglv dheizd k kZkuZxsh hklby Imhdhfi~~1~~ khZ b mklZ~~1~~ blv lo -
geh~~1~~ qkdmx aZ~~1~~ mrdm.

3.1.5.2.2 GZjnz~~1~~ dhgzpby

Ihly kZenldhc b Zglb fZkeh ;eZdhj :G -L beb Zhq_ dhgz~~1~~ -
pbhg_ fZkeh Z ipZehqgx iehkdhklv fZohbdZ , neZguc Zatf ~~1~~ imkdh~~1~~ -
h hklby Imhdhfi~~1~~ khZ (ey ~~1~~ Zlec ~~1~~ ~~1~~ imkdh~~1~~ iZljm~~1~~ Z , l~~1~~).

3.1.5.2.3 =flbaZpby ~~1~~ iehklc b hl~~1~~ vgo maeh\

GZjng_ hklby ~~1~~ imkdh~~1~~ dheedlhZ , imkdh~~1~~ dheedlhZ , dhjmkZ
lfhklZIZ , iZljm~~1~~ Z h~~1~~ ZkhkZ, Imhdhfi~~1~~ khZ , kZim~~1~~ ~~1~~ Zley , aZ
djlv ieghc ihebwlbe~~1~~ =HK 10354-82 b aZyaZlv riZZlhf RE 4,0 (0,25)
G1 «[» =HK 17308-88.

Zj~~1~~ b fhghpdehg hafmohhqbklbley , aZdjlv frdZfb ba iegb iheb -
wlbe~~1~~ b hdeblv e~~1~~ ihebwlbe~~1~~ k ebidbf keh~~1~~ =HK 20477-86 beb
aZyaZlv riZZlhf RE 4,0 (0,25) G1 «[» =HK 17308-88.

3.1.5.3

ØZley ihðlv \ khhlklbb ki .2.2.2

3.2

b h

3.2.1

ihðm žbZlhZ beb žkrbplevgh ZqdZ b ihyl_ mhv
 hoeZZxsc bðhklb , dhlhjc heg ðlv h ph lhpZ aZebgc hñh -
 bg .

G b b j g , fi ž 40 ff h b

3.2.2

hoeZgy aZiheycl_ gadhaZfaZxsc hoeZZxsc b^ dh-
 klvx .

Øl_ aZlfiZlmhc hoeZZxsc bðhklb , hfZevZy žhqZy lf -
 iZlmZ heZ ðlv 85-95qK. Ip ihurb b lfiZlmj ur_ hfZevgc
 ihyl_ mhv hoeZZxsc bðhklb \ žbZlhj , flbqgklv žbZlhZ
 b žlyb fg hbeylhZ .

Ip hðhðfhklb , g g j qf qa dZa_ 2000 qZkh\ žhlu ØZ -
 ley , ihfhcl_ kbklfm hoeZgy hl aZyagc . ey ihfuðb bkihevamcl_
 žklhj ba 50-60] dZevpbhj hZgc khû ž 1 e hû .

Ihfuðm kbklfu ihbahðl_ \ kefmxsf ihjd_ :
 - aZecl_ \ žbZlhj 2 e dhkbž b aZihegl_ kbklfm iphlhegf žk -
 lhjf ;

- imklbl_ ØZlev b ihžhlZcl_ 8-10 q, ihke_ qh kecl_ žklhj b ih -
 fhcl_ kbklfm hoeZgy qbklhc hñc .

3.2.3

hkmskleycl_ kfg iž imkdhf ØZley kihfh svx fZk-
 ehfZ , žkihehgh ž ehð_ pbeb\ ØZley . Mhv fZkeZ heg
 ðlv fm bg b pg fldZfb fZkehZ \ khhlklbb k žkmgfh 11.
 Ihðm hðhðfh eZlv g žg , qf qa 3-5fbg ihke_ hklZgd b ØZl_ -
 ey, dhZ fZkeh ihegklvx klql \ dZjj .

AZižZlky žhlZ ØZley k mhg fZkeZ \ dZjj g_ bg b u -
 r_ pg flhd ž fZkehfi .

J b k m g h h j Z m h y f Z k e Z \ d Z j j b Z l e y .

3.2.4 A f Z f Z \ Z Z

A f Z f Z k e Z \ d Z j j b Z l e c i h h b l q a d Z a 250 q Z k h \ Z h -
 l u , Z \ k e m q Z y o i p f g y m e b j n x s b o f Z k e b e b l h i e b Z k i h u r g f k h -
 Z b f k u - q a d Z a 125 q Z k h \ Z h l u . H i Z h l Z g f Z k e h k e b Z c l _
 l h e v d h b a i h j h h b Z l e y . e y k e b Z f Z k e Z h l b l i h f m f Z k e y g h d Z j -
 l Z . I h k e _ l h h , d Z d k _ f Z k e h u l q l b a d Z j Z , a Z b l i h f m Z f k l h .
 F Z k e h \ b Z l e v a Z e b Z c l _ q a f Z k e h a Z e b g c i Z l j n h d h m h y p g
 f l d b Z f Z k e h f j . A Z e b Z c l _ \ f Z k e y g c d Z j j l h e v d h i h f a Z g Z -
 k l h y s b f j m d h h k l h f f Z k e h , k h h l k l m x s _ i h f m w d k i e m Z I Z p b b

3.2.5 H H h f H

H j l h Z p h h h f Z k e y g h n b e v l Z i h b a h b l q a d Z ' -
 a 250 q Z k h \ Z h l u h a f g k a Z f g c f Z k e Z \ d Z j j b Z l e y .
 H l b l \ k h h l k l b b k j k m g h f 12 Z c d m 1 d j e g y d h e i Z d Z 2 p g -
 l h h h f Z k e y g h n b e v l Z b k g f b l h . I h y l Z e b q b Z e Z g b h h q -
 g c j k d b Z k l Z d Z g b d h j m k _ j l h Z (i p h l k m k l b b Z g b l j k d m) . A Z k l h i h -
 b l j l h j h l i h Z q b Z g y , e y q h k l Z v l f m d h j m k h f n b e v l Z b g -
 s f j l h Z h l l d m b e b k l g b , Z s Z y d e x q h f Z c d m 4 d j e g y k l Z d Z g
 j l h Z , k l y b l k l Z d Z g j l h Z 3.

I h y l k h k l h y g n b e v l j n x s c k l d b 5 j l h Z , i p g o h o f h k l b h q b -
 k l b l b i h f h c l _ _ .

K i h f h s v x y g h b e b i e Z k l f Z k k h h h k d f Z m Z e b l k e h c h l e h ' -
 g c k g l g o k l g d k l Z d Z g j l h Z .

I j k h j h c k l Z d Z g k d h j m k h f j l h Z a b g h m i e h l g l e v g d h e v p h
 k f Z v l f h l h j f f Z k e h f . K f k l b l Z e Z g b h h q g j k d b Z k l Z d Z g b d h j -
 i m k _ j l h Z . = Z c d m d j e g y k l Z d Z g a Z h Z q b Z c l _ k g e v r b f m k b e b f h i h e -
 g c i h k Z a b k l Z d Z g Z j l h j .

I h k e _ k h j b j l h j h e g e d h Z s Z l v k y h a Z Z g c h l l h e q d Z j m d h c .

M k l Z g b l Z f k l h d h e i Z d p h h h f Z k e y g h n b e v l Z b a Z b l _
 Z c d m d h e i Z d Z f h f h f 35...50 G o f .

1 ZcdZ; 2-dheiZd; 3-klZdZg 4-ZcdZ kipbZevZy ; 5-klZ nbevljmxsZy
 Bkmgd 12 HqbkldZ jlhZ pghh fZkeygh nbevlZ .

3.2.6 A Z f H

A Z fZkeygh nbevlZ ihbahbl_ \ khhlklbb k jkmgZfb 13Z b
 13[hgh k aZfgc fZkeZ \ dZji Zley \ kemxsc ihkehZ -
 levkklb :

- hhl_ nbevlj NF 009-1012005 kh rlmpZ , bkihevamy kipbZevgc
 dexq beb jhb_ ihjng_ kklZ ;

- Zhl_ Z rlmpj huc nbevlj NF 009-1012005 (H:H «:lhZl » ,
].Ebg , N) beb F 5101 (K:H «bnZ » ,].=hg , J) .

Ib mklZgd_ nbevlZ Z rlmpj kfZvl_ ihdeZdm 2 fhlgf fZkehf .
 Ihke_ dZkZby ihdeZdhc hihgc ihghklb dhjmkZ nbevlZ 1 hhl_
 nbevlj s_ Z 3/4 hghlZ . MklZgd_ nbevlZ Z dhjmk ihbahbl_ lhevdh mkb
 ebf jnd .

< Zevgrf aZdZauZcl_ fZkeyg_ nbevlj :

Z) NF 009-1012005 ih Zkm : 303858, hkkby , HghkdZy hē .,]. Ebg , me
 BghklbZevZy , 2Z, H:H «:lhZl » ;

[) F 5101 ih Zkm : 230019, J ,].=hg , me F . ; emrZ , 45, K:H «BN: »
 himkdZlky mklZgd_ nbevlj -iZlh\ Zghh lbiZ : fh^ . O149 nbj -
 fu «:K Lelko» (NZgby) ; fh^ . L37198 nbfu «Purolator» (BIZEby) .

1 dhjmk nbevlZ ; 2 ihdeZdZ ; 3 deZiZg ihlbhZgc ; 4 - deZiZg ijmkdgc ;
5 deZiZg indpbhgc ; 6 deZiZg ihoZglevgc .
Bkmgd 12Z - Nbevlj fZkeygc

1-dhjm nbevlZ ; 2 bdkhlg -fZkeygc liehhfgd (k); 3 rlmj ; 4 ihdeZdZ nbevlZ ; 5 ihdeZdZ k ; 6 deZiZg ihlbhZgc ; 7 deZiZg ijmkgc ; 8 deZiZg ihoZblevgc ; 9 ihZ ey kebZ hoeZZxsc bdkhb ; 10 dhevph miehlglevg ; 11 ihoZblevgc deZiZg k .

dkmgd 12[fZkeygc nbevlj k k

3.2.7 K b b j m u z

K hklhy ihbahbl_ qa dZu_ 125 qZkh\ Zhlu bZley .

Hbl_ ihfm kebZ hklhy, Zkihehgx \ bg qZklb klZdZg nbevlZ \ khhlklbb k jkmgdf 13, b kecl_ hklhc h ihyey qbklh lhi - ebZ . AZbl_ ihfm .

J b k m g h e b \ hklhy ba nbevlZ jnc hqbklb lhibZ .

3.2.8 **h** **h** **h** **h** **h**
h ihbahbl_ qj dZt_ 1000 qZkh\ Zhlu bZley \ ke_-
 mxsc ihkehZlevhklb :
 - aZdycl_ dzg lhibgh ZdZ;
 - hlhl_ Zcdb helh\ djegy klZdZg;
 - kpfbl_ \ khhlklb kpkmgfh 14 klZdZg3;
 - uhl_ dexqhf hlZZlev kklhc 2;
 - kpfbl_ ZkkbZlev ;
 - ihfhcl_ hlZZlev kklhc , ZkkbZlev b klZdZgnbevlZ \ baevhf
 lhib\ b mklZhbl_ bo Z fklh .

1 - dhjmk nbevlZ ; 2 - hlZZlev kklhc ; 3 - klZdZg
 Bkmgd 14 - IhfudZ nbevlZ jnc hqbklb lhibZ
 Ihke_ khjb nbevlZ aZihebl_ kbklfm lhibhf .

3.2.9 **K** **h** **b** **H** **H** **H**

K hklhy ijbahbl_ qj dZt_ 250 qZkh\ Zflu vZley .
 Hlpl_ ijdM 4 \ gg qZklb nbevlZ lhghc hqbklb lhibZ ž 2 3
 hhlZ \ khllklb k bkmgf 15 b kecl_ hklhc h ihyey qbklh lhib -
 Z . AZpl_ ijdM .

3.2.10 **A** **H** **H** **H** **H**

K kemf nbevlZ lhghc hqbklb lhibZ aZkbl hl qbklhu ipfg_ -
 fh lhibZ .

AZfg nbevlZ ijbahbl_ ip LH-3 \ khllklb k bkmgf 15, ey q_-
 h :

- kecl_ lhibh ba nbevlZ , hlm\ ž 4...6 hhlh\ ijdM 4 \ gg
 qZklb dhmkZ ;

G_nimkdZcl_ ihebZ lhibZ , keb\ lhibZ ijbahbl_ lhevdh \ fdhklv .

- hlpl_ nbevlj NL020-1117010 1 kh rmpZ 8 \ dhmk_ 2 b mklZgbl_
 fklh h guc nbevlj NL020-1117010 (H:H «:lhZl »,].Ebg , N),
 ihklZeyfuc \ khj k ijdeZdhc 7, dhlhnx iZplevg kfZvl_ fhlgf
 fZkehf ;

- ihke_ dZkZby ijdeZdb 7 mklZghqhc iehsZdb : ž dhmk_ 2 h_ -
 l_ nbevlj s ž ¼ hhlZ . Ip wlhf, hZqbZg_ nbevlZ ijbahbl_ lhevdh
 mkbef_ jnd ;

- hldhcl_ dZgd lhibh ždZ b aZihegl_ kbklm lhibhf \ khll -
 klb ki . 3.2.10.

< Zevgrf aZdZauZcl_ lhibg nbevlj NL020-1117010 ih Zkm :
 303858, hkkby , HchkdZy hē .,].Ebg , me BgklbZevzy , 2Z, H:H «:lhZl -
 Zl »;

1 nbevlj NL020-1117010; 2 dhmk ; 3 dhgag ; 4 - ijdZ (ey kebZ hklhy); 5-rlmpj
 hlhysbc ; 6 ijdZ (ey vimkdZ hafnoz); 7 ijdeZdZ ; 8 rmpj .

Bkmgd 15 - AZfg nbevlZ lhghc hqbklb lhibZ .

3.2.11 **A** **b** **fu**

► aZihegy lhibgc kbklfu (bkmgd 16) hphbfh mZeblv ba g
 hafno (ihdZqZlv kbklfm) ey qh :

Hlpl_ ihdm 4, Zkihehgx Z hel_ djeby hlysh rimp_ -
 Z , Z 2..3 hhlZ . IhdZqZcl_ kbklfm k ihfsvx ihdZqbZxsh ZkhkZ 2, aZ
 hZqbZy ihdm ip ihyeb lhibZ h imauydh\ hafnoz .

Hlpl_ ihdm 1 (Zkiheh_ ihdb ey kimkdZhafnoz Z lhibgo
 ZkhkZo kfhlb Z bkmgZo : 6 (iha .26), 7(iha .19), 7[(iha .22), b 8(iha .14), Z dhj -
 imk_ lhibgh ZkhkZ. IhdZqZcl_ kbklfm k ihfsvx ihdZqbZxsh ZkhkZ
 h ihyegy lhibZ h imauydh\ hafnoz , aZ hZqbZy ip wlhf ihdm 1.

1- ihdZ (ey umkdZ hafnoz), 2- Zkhk ihdZqbZxsbc , 3 nbevly lhgbc hqbklb lhibZ ,
 4- ihdZ .

bkmgd 16- MZeg_ hafnoz ba kbklfu lhibhZqb .

knx hamoZ kefnl ZiZeylv ih^ mchf d ihpklb nbevljnxsh
 wefz . k fy hkembZby hphdfh hZlv nbevljnxsb wefz hl
 foZbqkdbo ihc b aZfZkebZby .

AZijZlky ihmZlv nbevljnxsb wefz umkdgfb ZaZfb beb ih -
 fuZlv \ baevhf lhibl .

Hqbkbl_ ihhsmx ljmfn , gnl_ ihpklb dhjmkZ b ihhZ
 hamohhqbkbley hl iueb b jab .

I_ khjhc hamohhqbkbley ihyl_ khklhyg_ miehlglevgo dh-
 ep . Ip khj_ mblkv \ izbevgklb mklZgd nbevljnxsb wefz \
 dhjmk_ b Z_ aZlygl_ Zcdm- ZZrd hl jnd b.

HkembZg_ k k b b
 1000 qZkh\ Zflu baey beb b \ kemqZ_kZZluZby ZlqbdZ kbZebaZlhZ aZ
 khklb hamrgh nbevlZ .

Zlqbd iZazqg ey dexqby kbZevgc eZfiu , Zkihehg \
 sbld_ ihjh\ lZdlhZ , ip aZkhklb hamohhqbkbley ur_ himklbfhh .

ey ihfudb kdpbc nbevljnxsh wefz hamohhqbkbley kfbll_ \
 khhlklbb k jkmgfh 18 ihhg 6, klhij hfcfu 4, hfcfm 3 b kdpbb 2
 nbevljnxsh wefz ba dZihhg slbg . Ijfhcl_ kdpbb nbevljnxsh
 wefz , dhjmk b pZevmx ljmfn hamohhqbkbley \ baevhf lhibl_ .
 Zcl_ lhibm klqv ba kdpbc nbevljnxsh wefz b aZlf mklZgbl_ bo Z
 fklh .

1 - dhjmk hamohhqbkbley ; 2 - wefz nbevljnxsb_ ; 3 hfcZ ; 4 - klhij hfcfu ;
 5 - Z_ fZkeyZy ; 6 - ihhg
 Bkmgd 18 - hamohhqbkblev

J b k m ~~qch-dfZ~~ ihke~~hZlevg~~klb aZlydb helh\ djeby hehdb pbeb~~h~~\

3.2.16 ~~h~~ ~~h~~ ~~fm~~ ~~b~~ ~~b~~

A~~h~~ ~~fm~~ deZiZ~~Z~~fb b dh~~h~~fukeZfb ih~~y~~cl_ b, ip ~~h~~b~~h~~b~~h~~klb , ~~h~~nebjncl_ q~~a~~ dZ~~u~~_ 500 qZkh\ Z~~h~~lu , ZIZd' ihke_ k~~g~~lby hehdb pbebg- ~~h~~\ , ihlydb helh\ djeby hehdb pbeb~~h~~\ b ip ihye~~g~~b klmdZdeZ- iZ~~g~~\ .

AZahj ~~fm~~ ~~h~~cdhf dh~~h~~fukeZ b lh~~h~~phf klj ~~g~~ deZiZ~~Z~~ ip ih~~l~~_ ~~Z~~ ~~h~~h~~h~~f ~~b~~Zle_ (lfiZlm~~Z~~ ~~h~~u b fZkeZ ~~g~~ ~~h~~e_ 60 "K) he~~g~~ ~~l~~lv :

Z) ~~h~~ ~~h~~ >-246.1:
 - ~~h~~mkdg_ b ~~h~~imkdg_ deZiZ~~Z~~g 0,25 ^{0,10}/_{0,05} ff ;

[) ~~h~~ ~~h~~ >-246.2, >-246.3, >-246.4:
 - ~~h~~mkdg_ deZiZ~~Z~~g - 0,25 ^{0,05}/_{0,10} ff ;
 - ~~h~~imkdg_ deZiZ~~Z~~g - 0,45 ^{0,05}/_{0,10} ff .

Ip ~~h~~nebj~~h~~d_ aZahj ~~fm~~ lh~~h~~phf klj deZiZ~~Z~~ b ~~h~~cdhf dh~~h~~fukeZ ~~Z~~ ~~h~~h~~h~~f ~~b~~Zle_ mklZ~~Z~~ebZcl_ :

Z) ~~h~~ ~~h~~ >-246.1:
 - ~~h~~mkdg_ b ~~h~~imkdg_ deZiZ~~Z~~g 0,25 _{0,05} ff ;

[) ~~h~~ ~~h~~ >-246.2, >-246.3, >-246.4:
 - ~~h~~mkdg_ deZiZ~~Z~~g - 0,25 _{0,05} ff ;
 - ~~h~~imkdg_ deZiZ~~Z~~g - 0,45 _{0,05} ff

~~h~~nebj~~h~~dm ihbah~~h~~bl_ \ ke~~h~~mxsc ihke~~h~~Zlev~~g~~klb :
 - k~~g~~fbl_ dheizd d~~h~~urdb hehdb pbeb~~h~~\ b ih~~l~~_ dje~~g~~ klhd hkb dh~~h~~fuke_ ;

- ih~~h~~l_ dhe~~g~~Zluc ~~Z~~e ~~h~~ fh~~h~~Z i~~q~~ulby deZiZ~~Z~~g\ \ ih~~h~~ pb- eb~~h~~ (imk~~h~~dc deZiZ~~Z~~g ih~~h~~ pbeb~~h~~ ~~Z~~qb~~Z~~l hldj~~Z~~lvky , Z~~h~~imk~~h~~dc aZdZ~~g~~b~~Z~~l aZd~~h~~lvky) b hl~~h~~nebjncl_ aZahj \ q~~l~~hf , rklhf , k~~h~~fhf b ~~h~~kvfhf deZiZ~~Z~~o (kqblZy hl ~~h~~eylh~~Z~~), aZlf ih~~l~~ ~~g~~l_ dhe~~g~~Zluc ~~Z~~e ~~Z~~ ~~h~~bg h~~h~~hl , mklZ~~h~~g\ i~~q~~ulb_ \ q~~l~~hf pbeb~~h~~ , b hl~~h~~nebjncl_ aZahj \ ih~~h~~ , lh~~h~~f , l~~h~~vf b iylhf deZiZ~~Z~~o .

ey ~~h~~nebj~~h~~db aZah~~Z~~ hlimklbl_ dh~~h~~Zcdm ~~b~~Z ~~Z~~ dh~~h~~fuke_ ~~h~~nebj- jnf~~h~~ deZiZ~~Z~~g \ khhl~~h~~klbb k ~~h~~pkmg~~h~~f 21 b, ih~~h~~Zqb~~Z~~y ~~h~~g , mklZ~~h~~gbl_ ~~g~~ -

hphdfuc aZahj ih smim fm hcdhf dhfukeZ b lhphf kly deZiZZ .
Ihke_ mklZhd b aZahZ aZlygl_ dhZcdm . Ih hdhgZbb jnebhdb aZahZ \
deZiZZo ihklZvl_ Z fklh dheiZd djrdb jehdb pbeb\ .

1 bğ jnebhqgc ; 2 smi ; 3 dhZcdZ .
Bkmgd 21- jnebhZ aZahZ \ deZiZZo .

3.2.17

< ihpkk_ wdkiemZIZpbblhiebh ZkhkZ ukhdhh Zebg ip bagk_
hkgo fZec ZjnrZxlky jnebhqg_ iZZflj LG× .
KadZ LG× pZebahZgy hl kbklfu kfZadb bZley qa kipb -
Zevgc fZkehijh^ .

Reb LG ! h jZ , h g d b j !
mhy fZkeZ \ dZji ZkhkZ mklZZebZlky ZlfZlbq_ -
kdb.

ey kbby bagkh\ ipbabhgo fZec g himkdZlky ZhlZ LG×
h nbevljnxsh wefZ beb k aZkhgf nbevlhf lhdhc hqbkldb lhiebZ .
LZd' g himkdZlky ZhlZ k lhiebf , bfxsf ihurg_ khZb_ hu .

Ip hphdfhklb , ZIZd' ip logqkdhf hkembZbb baey ip
2LH-3 hphdfh kylv LG× k bZley b ihplv lhiebgc Zkhk Z
klg Z khhlklb_ jnebhqgf iZZfZf , ipgf \ ipehbb
> , ZIZd' mklZhhqgc mhe hiy iukdZ lhiebZ Z bZle . Ip g -
hphdfhklb , ihba\ khhlklmxsb_ jnebhdb .

IhZ b ip hphdfhklb jnebhZ lhiebh ZkhkZ heZ u -
ihglvky dZebnbpjZgf kipbZebklhf \ mkehbyo fZklkdhc Z kipbZev -
gf jnebhqgf klg , hjmhzgf ipZfb ih =HK 10578-96, \ khhl-
klb k lhZgyfb aZhZ -bahhbley lhiebh ZkhkZ.

jnebhqg_ iZZflj lhiebo Zkhkh\ ip ihd Z klg mdZ
aZg \ Ipehb > .

3.2.17.1 ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~
~~h~~ ihfm 32 (Bkmgd 6) Z lhphhc ihphkklb djurdb mey -
 lhZ .

HkeZvl dhghqgnx Zcdm 30 (lhphuf dexqhf S 10 ff).
 Ip Zhl baey Z fZdkbfZevhc qZklhl_ ohehklhh ohZ hljdhc f^ -
 eg hZqbZcl_ fnnj 29 (ih qZkhhc kljed_) h klZpebaZpbb qZklhlu Z -
 shy .

AZdhhl_ Zcdm b ihyl_ fZdkbfZevgnx qZklhlmZshy ohehklhh oh-
 Z , dhlhZy g heZ iurZlv 1560 fbg ¹ .

Ip hphbfhklb ihlhl_ klyb ih mebhhd_ : kZqZeZ um\ Z
 2-3 hhlZ fnnj , b Ze_ hiylv feh h hZqbZy h klZpebaZpbb qZklh-
 lu Zshy , g he_ .

Ip iehblevgo imevlZIZo aZhl_ ihfm .

3.2.17.2 ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~
~~h~~ Zkhku ihke_ mebhhd_ heg ulv hiehfhhZg kihkh-
 hf , bkdexqZxsbf hafhgklv bafby mebhhd h kglby iehf[.

3.2.18 ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ dZ~~h~~

~~h~~ aZlmgf imkd_ bZley , ufhf umkd_ , ZIZd' ip aZfg , mk
 lZhd_ lhiebh ZkhkZ ihke_ ihhb Z klq qa 2LH-3 beb fhg b -
 aey hfaZlevh ihyl_ mklZghqgc mhe higy iukdZ lhiebZ Z
 bZle_ .

AZqby mklZghqgh mZ higy iukdZ lhiebZ ipu \ lZ[-
 ebp_ 13.

LZep Z13

Lhiebgc Zkhk ukhdhh Zehy	bZlev			
	>246.1	>-246.2	>-246.3	>-246.4
	M k l Z g h \ h m p u h o y lhiebZ , Zmkh\ h h h Z			iukdZ
776.1111005/WW2	8-1,0	6-1,0	-	-
4MLGW-1111007	11-1,0	9-1,0	-	-
PP4M10P1f-4204-10; -20 beb PP4M10P1f 4204; 4218	11-1,0	-	-	-
PP4M10P1f-4244; PP4M10P1f-4244-10; -20	-	9-1,0	-	-
776.1111005-01/WW2	-	-	6-1,0	
PP4M10P1f-4245; PP4M10P1f-4245-10; -20	-	-	9-1,0	-
PP4M10P1f-4205; PP4M10P1f-4205-10; -20 beb	-	-	-	9-1,0

l j h \ _ j chklZghqgh mZ higy iukdZ lhiebZ k lhiebgfb Z -
 khkZfb lbiZ 776 (H:H «YA> » , N)ihbahbl_ \ kemxsc ihkehZlevh -
 klb :

- mklZghl_ ihjg ihh pbebZ Z lZdl_ kZlby aZ40-50q h FL ;

- mklZ**gbl**_ juqZ] miZ**egy** jneylhjhf \ ihe**g**_ , khhlklmxs_
fZdkbfZev**g**c ihZq_ lhiebZ ;
- hlkh**gbl**_ ljm dm \ukhdh**h** Z**egy** hl rimpZ i**h**c kdpbb **g**khkZ b
fkl**h** **g** ih**h**g**bl**_ dh**h**ev**g**_ ipkihkh**g**_ , i**h**lZeyxs_ kh**h**c hl-
jhd ljm**g** \ukhdh**h** Z**egy** **g**b**g**c 100...120 ff k**g**bf**g**c Zcd**h**c **g** h**g**f
dh**g**_ b lhj**f** dh**g**hf , hl**h**g**luf** \ kl**h**g**g** **g** 150 170° \ khhlkl**g**b k **g** -
kmg**h**f 22;
- aZi**h**g**bl**_ lhieb**g**c **g**khk lhieb**h**f , mZ**e**bl_ ha**h**mo ba kbkl**f**u **g**adh**h**
Z**egy** b khaZ**cl**_ ba**h**l**h**q**g**_ Z**eg**_ **g**khkhf j**g**q**g**c i**h**dZqdb **h** i**h**y**egy**
kiehr**g**c klj**nb** lhiebZ ba ljm**g** dh**h**ev**g****h** ipkihkh**g****g**y ;
- f**g** ZsZy dhe**g**Zluc Ze **h**Z**ley** ih qZkh**h**c kl**g**d_ b i**h** **g**-
Zy ba**h**l**h**q**g**_ Z**eg**_ \ **h**eh**d**_ **g**khkZ (i**h**dZqbZxs**bf** **g**khkhf), ke**bl**_ aZ
bkl**g**bf lhiebZ ba dh**h**ev**g****h** ipkihkh**g****g**y . < fh**g** i**g**Zs**g**y bk-
l**g**y lhiebZ (h**im**kdZl**ky** dZie**i**Z**g** **h** 1 dZieb aZ10 k**dm**g) Zs**g** dh-
egZl**h**h ZeZ i**g**Zl**bl**v ;
- **g**bl_ \ khhlkl**g**b k **g**km**g**hf 23 n**bd**kZl**h**j ba **g**v**h**h**h** hl**g**l**by**
aZ**h** ebklZ b klZ**yl**_ **h** h**z**l**g**c kl**h**g**g**c \ lh ' hl**g**l**by** **h** mi**h**Z \ fZoh-
b**d** , ip w**h**hf n**bd**kZl**h**j **h**eg kh**h**ZZl**v** k hl**g**l**bf** \ fZoh**bd**_ (w**h**a**g**q**bl** , q**h**
i**h**g i**h**h p**e**b**g** mklZ**g**g \ ihe**g**_ , khhlklmxs_ mklZ**g**h**q** -
h**fm** m**g**m h**ig**y i**g**kdZ lhiebZ , mdZaZ**h**fm \ lZ**g**bp_ 13).

1-**g**bf**g**y ZcdZ; 2-ljmZ \ukhdh**h** Z**egy** .
bkm**g**d 22 - Wkdbadh**h**ev**g****h** ipkihkh**g****g**y .

- Ip **g**h**h**Z**g**b n**bd**kZl**h**Z k hl**g**l**bf** \ fZoh**bd**_ i**h**ba**bl**_ j**ne**b -
j**dm** , **g**y q**h** i**h**eZ**cl**_ ke**h**mxs_ :
- kb**g**bl_ \ khhlkl**g**b k **g**km**g**hf 24 d**j**rdm ex**d**Z;
- kh**f**kl**bl**_ n**bd**kZl**h**j k hl**g**l**bf** \ fZoh**bd**_ , i**h**hZqbZy \ l**m** beb j**h**mx
kl**h**g**g** dhe**g**Zluc Ze ;
- hlimkl**bl**_ **g** 1...1,5 h**h**h**h**Z Zcd**b** d**je**gy r**kl**g ip**h**Z lhieb**g****h**
gkhkZ;
- ip i**h**fsb dexqZ i**h**g**bl**_ aZ**g**cdm Z**e**bd lhieb**g****h** **g**khkZ i**h**l**** qZ-
kh**h**c kl**g**db **h** mi**h**Z ribed \ d**z**c iZaZr**kl**g ip**h**Z lhieb**g****h** **g**khkZ;
- khaZ**cl**_ ba**h**l**h**q**g**_ Z**eg**_ \ **h**eh**d**_ lhieb**g****h** **g**khkZ **h** i**h**y**egy**
kiehr**g**c klj**nb** lhiebZ ba ljm**g** dh**h**ev**g****h** ipkihkh**g****g**y ;
- \ fh**g** i**g**Zs**g**y bkl**g**y lhiebZ i**g**Zl**bl**_ Zs**g** ZeZ b aZ
n**bd**kbj**nc**l_ **h** , aZ**g**\ Zcd**b** d**je**gy i**h**emf**mn**lu ip**h**Z d r**kl**g ip**h**Z .

J b k m 3-MklZhdZ nbdkZlhZ \ hklb_ aZd ebklZ b fZohpdZ .
 Ijba~~bl~~_ ihlh~~nx~~ ih~~dm~~ fh~~fz~~ ZqZeZ ihZqb lhiebZ .
 Hlkh~~bl~~_ dh~~hev~~g_ ipkih~~hb~~ b mklZ~~bl~~ Z fklh ljn~~fm~~ u -
 kh~~dh~~ Z~~gy~~ b djrdm exdZ. AZ~~bl~~ \ hklb_ aZd ebklZ nbdkZlhj .

- 1 djrdZ exdZ; 2 ZcdZ; 3 ribevdZ ; 4 ZcdZ kipbZevZy ; 5 ihemfmnlZ ip~~h~~Z ;
 6 rkl~~y~~ ip~~h~~Z lhieb~~gh~~ Z~~khk~~Z
 Bkmgd 24 - Ip~~h~~^ lhieb~~gh~~ Z~~khk~~Z

lhđm **h** **h** **h** **h** **h** **h**
h 4MLW (H «GL: », N), PP4M10P1f («MOTORPAL», D),
 PP4M10P1f (A:H «JA », N) **h** \ **h** **h** -
h :

-mklZghl_ juqZ] miZegy jneylhjf \ ihehg_ , khhlklmxs_
 fZdkbfZevhc ihZq_ lhiebZ ;

-hlkhđgl_ ljmđm ùkhdhđ Zegy hl rimpZ ihc kdpbb žkhkZ b
 fklh g ihkhđgl_ fhfhkdhi (Zdbžy ŽcdZ k dhđldhc ljmđhc , d dhlh-
 hc k ihfsvx ãbhgc ljmđb ihkhđž kldeyžy ljmđZ k ģlhf
 đZflhf hl 1 ģ 2ff , (Đkmgđ 25);

-ihđl_ dhegZluc Ze đZley dexqhf ih qZkhhc klđd_ ģ ihy\ -
 ehy ba kldeyhc ljmđb fhfhkdhiZ lhiebZ ģ imaujdh\ ģafnoz ;

-mZabl_ qZklv lhiebZ ba kldeyhc ljmđb , kljog\ _ ;

-ihđl_ dhegZluc Ze \ hZlgnx klhgn (ihl\ qZkhhc klđdb) ž
 30°-40q;

-fđg žsZy dhegZluc Ze đZley ih qZkhhc klđd_ , keđl_ aZ
 mhđg lhiebZ \ ljmđ_ , \ fhfg žqZeZ ihfZ lhiebZ iđZlbl_ žsg_
 dhegZlhh žeZ ;

-đpl_ nbdkZlhj ba ãvhhđ hlklby aZđ ebklZ b klZyl_ ģ
 hZlhc klhđgc \ lh ' hlklb_ ģ miHZ \ fZohđd , ip wlhf nbdkZlhj ģe -
 g khZZlv k hlklbf \ fZohđd_ (wlhazqbl , qlh ihjg ihđ pbebž
 mklZhgē \ ihehg_ , khhlklmxs_ mklZghqfm mēm hiđy iju -
 kdZlhiebZ , mdZaZgfm \ lZđbp_ 13);

1 kldeyžy ljmđZ ; 2 ãbhžy iphžy ljmđZ ; 3 hlđhd ljmđb ùkhdhđ Zegy ;
 4 rZcZ ; 5 ŽcdZ.

Đkmgđ 25 - Fhfhkdhi

Ip ģhZđb nbdkZlhZ k hlklbf \ fZohđd_ ihbađl_ ģneb -
 ģđm , éy qđ ihZcl_ keđmxs_ :

-kđfbl_ đjrdm exdZ ;

- khfklbl_ nbdkZlhj k hklb_ \ fZohbd_ , ihhZqbZy \ lm beb fnjnx klhjn dhegZluc Ze ;
- hlimklbl_ Z 1...1,5 hhhZ Zcdb djeby rklb iphZ lhibgh ZkhkZ;
- mZeb_ qZklv lhibZ ba kldeygc ljmfb fhfhkdhiZ , keb hg \ g bflky ;
- ip ihfhsb dexqZ ihbl_ aZZcdm kipbZevgnx Zebd lhibgh Zkh - kZ\ hg b fnjnx klhjn \ iZeo iZah\ , Zkihehgo Z lhpnc ihp - gklb rklb iphZ lhibgh ZkhkZ n aZihegy lhibhf kld eygc ljmfb fhfhkdhiZ ;
- mklZghl_ Zebd lhibgh ZkhkZ \ dZcg (ihl\ qZkhc kldeb) \ iZeo iZah\ ihehb_ ;
- mZeb_ qZklv lhibZ ba kldeygc ljmfb ;
- feb ihbl_ Zebd lhibgh ZkhkZ ih qZkhc kldeb n fhfg - lZ ZqZeZ ihfZ lhibZ \ kld eyg c ljmfb_ ;
- \ fhfg ZqZeZ ihfZ lhibZ \ kldeygc ljmfb_ idZlbl_ Zs_ - b_ ZebdZ b aZlygl_ Zcdb djeby rklb_ ;
- ihbabl_ ihlhjnx ihjm fhfZ ZqZeZ ihZqb lhibZ ;
- hlkhdbl_ fhfhkdhi b mklZghl_ Z fklh ljmfm \ khdh Zebgy b djrdm exdZ;
- aZgl_ \ hklb_ aZl ebklZ nbdkZlhj .

3.2.19 ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~

- ~~h~~ wedlhfZhlZ hklZbZ (WF) \ khj k lhibgf Zkhkhf 776 (H:H «YA> », N) beb PP4M10P1f-10/-20 (A: H «J:A » , N) Z bkiulZlevg f klq ihbahbl_ \ kefnxsc ihkehZlevgklb :
- mklZghl_ lhibgc Zkhk \ khj k WF Z bkiulZlevgc klq ;
- mklZghl_ miZeyxsc juqZ] lhibgh ZkhkZ \ ihehb_ fZdkbfZev - gc ihZqb b aZnbdkbjnc_ h ;
- ihkhdbl_ iphZ hl bklhqgdZ ihklhygh lhdZ \ khhlklbb k g - fbZevgf Ziybf WF d imkdhc , mDZxsc hfhlDf b "fZkk_" WF \ khhlklbb k bkmgdf 26.
- aZimklbl_ klq b mklZghl_ hhhlu n=750 fbg⁻¹
- ihZcl_ Ziyb_ Z hl hfhlD WF, ip wlhf juqZ] heg ifk - lblvky \ ihehb_ "ZhlZ " (Bkmgd 7Z). IhZqZ lhibZ ba kdpbc lhibgh ZkhkZ heg hkmskleylvky ;
- kfb_ Ziyb_ k mDZxsc hfhlD WF. IhZqb lhibZ ba kd - pbc ZkhkZ g heg ulv .
- dexqb_ hfhlD hfb_ , k ihkefnxsf hldexqbf imkdhc hfhlD hZgblevgf mklhcklhf , klhgf \ wedlhfZhl . fy dexqb_ y imkdhc hfhlD g he_ 2 kd .
- Ihjm Zhlkihkhgklb wedlhfZhlZ Z dae_ hkmskleycl_ lp - dZlgf dexqbf ip gfbZevgf Zhf Ziybb . WedlhfZhl he - g hkiqbZlv Zl_ kZlZlZb_ b mZb_ juqZZ lhibgh ZkhkZ \ ihehb_ "ZhlZ " .

Bkmgd 26 - KZ wedlpqkdZy ihdexqby wedlfhZblZ hklZbZ

3.2.20 ~~h~~ ~~h~~ ~~g~~ ~~h~~ ~~h~~ ~~h~~ ~~b~~

~~h~~ nhkmgd ihbahbl_ qa 2000 qZkh\ Zflu vZley .
~~h~~fb_ nhkmgd k vZley b ihyl_ bo g klg .
 NhkmgZ kqblZlky bkiZhc , keb hZ ZkiuebZl lhibh \ b^ ImfZg
 ba ko iylb hklbc Zkiuebley , h hlevh uelZxsbo dZiev , kiehrgo
 kljnc b kjsnc . GZqZehb dhg iukdZ heg ulv qldbfb , ihyeg dz
 iev g hkd_ Zkiuebley g himkdZlky .

DZqklh ZkiueZ ihycl_ ip qZklhl_ 60-80 iukdh\ \ fbnlm .
 Ip hphdfhklb hlnebjncl_ nhkmgd bafbf hsc lhesbg
 mebhqgo rZc[2 (Bkmgd 27): mebg_ hsc lhesbg mebhqgo
 rZc[(mebg_ kZlby ijb_) ihurZl Zeg_ , mfgb_ ihgZl .
 Baf_ lhesbg rZc[g 0,1ff iphdl d bafbx Zegy ZqZeZ iht -
 fZ bfu nhkmgd g 1,3... 1,5 FIZ .

AZqby Zegy ZqZeZ iukdbZby ey nhkmgd :

455.1112010-50 24,5^{1,2} FIZ ; 172.1112010-11.01 25,0...26,2 FIZ .

MklZbl_ nhkmgd g vZlev .;helu kdhv djeby nhkmgd aZlyb -
 Zcl_ Zbfh \ 2-3 ipfZ . HdhgZlevgc fhf_ aZlydb 20...25 Gof .

1 dhjnk nhkmgd ; 2 rZcZ mebhqzy ; 3 ijbZ ; 4 rZZ nhkmgd ;
 5 ihklZdZ ; 5 ZcdZ Zkiuebley ; 7 Zkiuelev ; 8 dhevph miehblevh .

Bkmgd 27 - NhkmgZ

3.2.21

< ihpkk_ wdkiemZIZpbbZley kipbZevhh hķembZby ZlhZ
 g lfnlky . IhkahZy ĩnebhđZ Ziyby ZlhZ \ khhlklbb k p -
 kmghf 28 hkmskleylky bhf ihkahgc ĩnebhđb Ziyby "AbfZ-
 Elh ", Zkihehgf Z aZg kld ZlhZ .
 bZleb fhml dhfiedlhZlvky ZlhZfb k ZlhfZlbqkdhc ihkahg -
 gc ĩnebhđhc Ziyby . Ip wlhf bg 1 hlkmlklml .
 k fy wdkiemZIZpbbkebl_ aZgklvx djeb y ZlhZ b ih -
 hñ\ , ZIZd' aZqbkhlhc Zjngc ihpkkb b deff .
 BkiZklv ZlhZ ihycl_ ih hevlflm beb ih dhhevgc eZfi_
 b Zfiflj , mklZhegf Z sbld_ ihhñ\ ðaev -ZlhZ .
 Reb Zlhj bkiZgc , dhhevzy eZfiZ aZhyZky ip ðexqbb
 ðexqZley "fZkku " iĴ imkdhf bZley .

1 bg ihkahgc ĩnebhđb Ziyby

Ĭkmgd 28 - IhkahZy ĩnebhđZ Ziyby ZlhZ

Ihke_ imkdZbZley b ip Zhl_ h Z kđ qZklhl_ Zsby dhg-
 lhevzy eZfiZ Zkg , klđZ hevlflZ heZ Zohđlvky \ aegc ahg , Z
 Zfiflj heg ihdZauZlv ghjhuc aZjgc lhd, ebqbZ dhlhñh iZZl_
 ih fj_ ĩkklZhegy aZjđb ZIZp .

3.2.22

ihbahđl_ qa dZđ 125 qZkh\ Zflu bZley .
 Ihñm ĩbahđl_ k ihfsvx mklĳcklZ DB-8920 \ keñxsf ihj^ -
 d:
 -ipđl_ mklĳcklh \ bkohg_ ihehg_ , ey qh mklZgb_l dhđhc
 mdZaZlev Zĳnadb 6 (Ĭkmgd 29) Z mev b Zadhgl_ ihđg_ kflu 2 b 3
 lZd, qlhñ bo gg_ lhpu Zohđebkv Z hñf mhg ;

- mklZ**g**bl_ mkl**h**cklh k**l**Zfb **g** ih**y**fuc **fy** \ k**g** ih -
elZ **f**n rdbZfb b **g**fb_l **g** dhjmk -jnqdm 1, key aZihdZaZ**g**f mdZaZley
Z**h**nadb 6;

- dZdlhev**d**h Z**h**madZ **g** **fy** **h**klb**l** 40 G k**g**fb_l mkl**h**cklh b hi**l** -
ebl_ **g**qb**g**m ih**h**Z **fy** ih rdZe_ 5 **g**kb**g**c **g** k**l**Zo ;

Reb ih**h**[**fy** **g** khhl**l**kl**l** **l**fn**h**c **g**qb**g** , mdZaZ**g**c **g** **h** -
k**g**d_ 29, hl**h**eb**h**nc**l** **h** **g**ly**g** -

l **h** **h** **h** **h** - **g** **h** **h** **h** -
h , Z**h** **h** **h** .

h **h** **h** **g** **h** **h** **h** , Z**h** **h** -
h **h** **h** **h** **h** **h** , **h** .

h **h**eb**h**db **g**ly**g** **fy** hkeZ**l** **g**cdb **h**el**h**\ **h**eb_ eZi **l** -
glh**g** b **h**el **h**eb**g** **g**lh**g** d ieZ**g** . Ih**h**lh**h**f dhjmkZ **g**lh**g**

hl**h**eb**h**nc**l** **g**ly**g** **fy** . AZly**g**l_ **h**el **h**eb**g** **g**lh**g** d ieZ**g** b
gcdb **h**el**h**\ **h**eb**g** eZi **g**lh**g** .

GZly**g** **fy** **h**eylh**g** k**q**blZ**l**ky **h**fZev**g**f , **h**eb ih**h**[**h** **g**
l rdb\ **h**egZ**l**h**h** ZeZ - rdb\ **g**lh**g** , \ khhl**l**kl**h** k **h**km**g**h**f** 29, **g** -
oh**h**ky \ **h**Zo 15...22 ff **h** **g**Z**l**bb **g** **fy** k **h**k**h**eb**f** 40 G.

1 dhjmk jnqdb mkl**h**ck**l**Z DB-8920; 2 b 3 k**l**u ; 4 rlhd ; 5 rdZeZ ih**h**Z ; 6 - mdZaZ**l**-
eb **g**h**h**nadb .

hkm**g**d 29 - Ih**h**Z **g**ly**g** **fy** **h**eylh**g** .

3.2.23 **h** **h** **h**

h dZ**h**_ 1000 qZkh**g** **h**ley :
- ih**h**l_ aZly**h**dm **h**go **h**el**h**\ , **h** **h**h**h**h**h**kl**h** ih**h**yl_ bo;
- aZ**q**kl**h**l_ **g**dh**g**db ih**h**\ d de**f**Z**f** k**l**Z**g** b Z**h**dm**f**eylh**g**c **g** -
lZ**h** b ih**h**yl_ bo **h**eb**g** .

IhnbeZdlbqkdbc hkfhlj b hķembZb_ ihhbl_ dZŭ_ 2000 qZkh\ Z -
 hlu baey

Kfbl_ djrdm kh klhġg dheedlhZ b ihyl_ khklhyb_ slhqg -
 dheedlhġh maeZ ZhqZy ihġġklv dheedlhZ heZ ūlv ņZdhc b g
 bflv aZqblevġh ihZZ . Reb dheedlhj aZyag beb bfl_ keŭ aZqb -
 levġh ihZZ , ihlpl_ h qbklhc kZenldhc , kfhqġc \ ġbg . Ip g -
 hafhġklb mklZby yab beb ihZZ ihlbġhc , aZqbklbl_ dheedlhj fe -
 dhc rebnhZevġc rdmġhc . Ip aZqblevgo ihZZo dheedlhZ , g ihZx -
 sboky aZqbkl_ ihlhqbl_ dheedlhj Z klZġ_ .

Sldb heġ khġġ ifszlvky \ sldhZleyo b iehlg_ ipe_ -
 Zlv d dheedlhjm . Ip baġk_ slhd h ūkhlu 13 ff , ZIZd' ip Zebqbb aZqb -
 levgo kdheh\ aZfġl_ bo ġufb .

Ihmfcl_ slhqg -dheedlhġc mae b djrdm kh klhġg dheedlhZ kZ -
 luf hafnohf .

Ihyl_ khklhyb_ dhZdlġc kbklfu ġ_ klZjZ . Ip aZqblevġf
 ihZj_ aZqbklbl_ dhZdlġ_ helu b ieZklbg dhZdlġx rebnhZevġc rdmj -
 dhc beb Zibevġdhf , ky\ ġġklb , ūaZġ_ ihZhf , g ZjmrZy ip wlhf
 iekdhklġklb dhZdlġgo ihġġklc fġo helh\ . Ip aZqblevġf baġk_
 ieZklbg b helh\ , ipl_ dhZdlġx ieZklbg , ZdhZdlġ_ helu Zaj_ -
 ġl_ Z 180° .

Ihyl_ edhklv ifsb_ iphZ ihZem ydhj . Ip dexqġb b
 hldexqġb ġ_ iph^ heġ h aZZġc ifszlvky ih rebpZf ZeZ ydh -
 j .

MZebl_ k ġlġo ihġġklc Zizeyxsc lmedb iphZ (rebp_ -
 hc b ņZdhc), ipeZxsbo d g qZklc ZeZ ihizrmx ba dZjZ aZyagx
 aZġklrmx kfZadm ihmfdlZfb baġkZ , dhlhZy aZqblevġ aZlġġl_ hkh_
 ifsb_ iphZ ih rebpZf ZeZ ip h^ rklġ \ aZpieġ_ k amġZ -
 luf ġhf fZohġdZ . GZ hqbsġ_ ihġġklb Zġlb lhġbc kehc kfZadb
 PB:LBF -221 (PB:LBF -203, PB:LBF -201).

Kklhyb_ rklġ iphZ b mihġo rZc[ihyl_ bamZevġ . AZahj
 fm lhphf rklġ b mihġfb rZcZfb ip dexqġf iehġb heġ
 ūlv 2...4 ff .

3.2.24 ~~W~~ ~~W~~

< ihpkk_ wdkiemZIZpbbkipbZevġh hķembZby ImġdhfġkhZ g
 lmlky , ZahġZ b fhġ g ġimkdZxlky . QZklbqZy beb iheZy ZahġZ , Z
 lZd' fhġ hafhġ ihke_ ktfZ ImġdhfġkhZ k ņZley b lhevdh \ mk
 ehġyo kpbZebabhZġh iġylby .

GZzy b hehġzy ZhIZ ImġdhfġkhZ aZġkbl hl khġxġy
 izbe b ihġdqġklb logqkdġh hķembZby kbklf kfZadb b hafnohhqġ -
 kldb baey , bkievahZġb lbiZ fZkeZ, ihfġmfġh aZġhf -bahlhġlef ,
 dhġey Zeġy fZkeZ \ kbklf_ kfZadb, aZfg b hqġklb fZkeygo b hafnr -
 go nbevġh\ .

Ihġ_ lġhġhġ ihZqb b kebZ fZkeZ, ZIZd' hafnohġhġ
 ihġhġy d Imġdhfġkhjm heġ feġ aZfglvky . Ip aZfg
 ImġdhfġkhZ aZecl_ \ fZkehġhys_ hlġlb_ qbklh_ fhlg_ fZkeh ih

mhyg neZpZ , Z ip mklZgd_ ihdeZhd ih^ neZgu ljhijhh\ g ipf_ -
 glv flbdb .

4 4

4.1 4 h h b 4

4.1.1 4 4

Lh fhg uieglky ip hagdhhb hldZah\ b ihc
 (hkiZkklc) baey , dhlhu_ g fhnl flv mklZg jnebhZfb ip
 logqkdhf hkembZbb .

IpaZdZfb hphbhfklb ldms h fhZ bZley yeyxlky : ihu -
 rgc Zkoh^ lhiebZ , mebcgc mZj fZkeZ, ihbh_ Zeb_ kfZadb,
 momfb_ imkdhuo dZqkl\ .

Ldmsbc fhg hphbhf ihhblv , bkievamy hhebcgc flh^ ,
 ip dhlhjf khoZglky ipZehklv hkkllZebZfuoh khklZgo qZklc d
 hiqfm baex . Ip wlhf flh^ hklZlhqgc kmk IZec b khqgo
 bhp khoZglky ip fhg he_ iehg \ kyab k lf , qlh g flnky m\
 ebqg_ eblevklb ipZhlbdb b g ihbkohbl ip wlhf ihurgh bakZ
 hgo h hkkllZehy IZec b khijc .

Zflu ih ldmsfm fhgm heg uieglv Zhlbdb , ihrfb_
 ihllhm ih ihZff_ hfnqby kekZc ih fhgm bZlec b bfxsb_
 dZebndZpbx kekZj 3, 4 ZajZ , azxb_ mklhcklh b ipgbi cklby b -
 Zley .

ey iZplevgc bZhlbdb logqkdh hkhlyby \ ihpkk_ wdk
 iemZlZpbb Z bZle_ mklZehg : Zlqbd mdZaZley Zehy fZkeZ \ kbklf_
 kfZadb b Zlqbd kbZebaZlhZ ZZpcgh Zehy ; Zlqbd mdZaZley lfiZlm -
 ju hoeZZxsc bdhklb b Zlqbd ZZpcgc lfiZlmju hoeZZxsc b^ -
 dhklb .

K g aZkhklb hafnohqbkbley dhhebjmky k ihfsvx Zlqb -
 dZ kbZebaZlhZ aZkhklb hafnrg h nbevZ , iZaqgh ey dex -
 qby kbZevhc eZfiu ip aZkhklb hafnrg h nbevZ ur_ himklbfh -
 h .

Dhhevg_ iphu , hlhZZxsb_ bghfZpbx Zlqbdh\ , ZkiheZZxlky
 Z sbld_ iphh\ .

Igg hafngo hldZah\ b ihc khklZgo qZklc bZley b
 mkehby bo mklZhy ldmsbf fhgf ipg \ IZebp_ 14.

LZēbpZ 14

KklZy qZklv baey	H l d Z a i h y , mklZyfu_ l dmsbf f h h f \ mk ehpyo :	
	fZklkdbo ohaycklZ	kipbZebabhZgo f h g o mqZkldh\ i h y l b c
L m j [h d h f i j _	k k h j -	k_ hldZau b i h y
G Z k l h i k b g c	-	k_ hldZau b i h y
= h e h p d e Z g - h\	Z j n r g _ f l b q g - klb deZiZg\	ba h k m l g o i h y b k l c Z i Z e y x s b o l m e h d d e Z i Z g \ ; i e v g c b a h k k e d e Z i Z g \ ; d h h e h _ i e h k d h k l b i p e Z g y h e h d b d e h d m ; l s b g ; i h j _ y j _ a v [h h u o j k l b c
= b e v a h z g k b b	beb ihly miehlyxsc kihkhg - klb khiygy	-
G Z k l h y g c	k_ hldZau b i h y - gy	-
G Z k f z k e y g c	-	k b b _ i h b a h d l e v h k l b
K j j	w h a b c g c b a h k d h g - l Z d l g c i Z j u e k l Z j - l Z ; b a h k s l h d , d h e - e d l h j Z	f b l d h h _ a Z f u d Z g _ \ d Z l m r - d Z a i h y b a h e y p b b d Z l m r d ; b a h k i h f b i g d h \ ; h l d Z a i j b \ h ^ Z

4.1.2 E

D l d m s f m f h g m h i m k d Z x l k y Z h q b _ , i h r f b _ k i p b Z e v g _ h f n q _
g _ b b f x s b _ m h k l h b _ h i p k h b b d Z e b n b d Z p b b , i h r f b _ b g l j n d -
l Z ' i h l o g d _ a h i Z k h k l b b i h Z g c a h i Z k h k l b , Z l Z d ' h f n q g _ b i h -
j m a Z g c i h h i h k Z f h o Z g l j n Z , b h k i g g _ k i p h c _ , k i p h f n -
v x b m h f b k f l Z f b b g b m Z e v g c a Z s b l u .
h z g ' b k i Z g o m a e h \ i h b a h d l _ l h e v d h g Z h l Z x s f b Z l _ -
e .

I p h k f h l j b Z l e y i h e v a m c l k v i p k h c e Z f i h c Z i y b f g h -
e _ 24 < .

h \ l h i e b Z b f Z k e Z i h b a h d l _ l h e v d h \ k h h l k l m x s b _ f d h k l b . I p -
e b l u _ g i h e = K a Z k u i Z l v h i b e d Z f b b e b i k d h f b m Z l v k Z h q h f k l Z .

I p b k i e v a h Z g b i p f h z ' i h t f g - l Z g i h j g o k f l \ g b h -
b f h Z a f k i h k h f a Z d j e y l v i f s Z f u c j n a . G Z i h t f g -
l Z g i h j g o k f l Z o h e g u l v Z k u Z g _ h [b o j n a h i h t f g k l b b
Z l _ i h j b .

A Z i s Z l k y b k i e v a h Z l v i h t f g d i p f Z k k _ j n a Z , i j r Z x s c j n a h -
i h t f g k l v f Z r b g b i h h a b l v e x u _ j n a u g ^ e x o f b .

G h i m k l b f h m k l Z Z e b Z l v d j n i g _ l Z e b b Z Z l u j n] g j n Z , k h a Z -
Z y Z Z p c g x d h f i h a b p b x .

F h c d m l Z e c b m a e h \ u i h e g l v g k i p b Z e v g h h j n h Z g f Z h q f
f k l _ .

G_ñimkdZlky žhlZ k gZafegf fhqgf hñjmñZbf b bfxsbf
 g aZmegc wedlhbZlev žkhkZ.
 ZabZlv b khbZlv fedb_ mau keñl ž klZd_ , djmig_ ž kipb -
 Zevgo klžo .

Ipkikhñby , bkihevamfu_ \ žhl_ , ñeg ðlv \ bkiZbf khklhy-
 bb . Kdb g ñeg bflv ljb , ihñluo klž , khZbc beb kfy -
 lhc ðvñ . IhevahZlvky bağrgf beb bkiZgfb ktfbdZfb aZižZ -
 lky .

Zhqbc bgljmfğ ñeg ðlv bkiZgf b khllklmñsh žafZ .
 DexqZfb k bağrgf beb ñhfbhZgf ahf ihevahZlvky gway .
 ey ihñb khñZby hlklbc keñl ipfylv hiZdm , ehfbd beb
 ðel , g g iZevpu jnd .

Ib ðihegb žhl ž kðbevñf beb hðhqğ -rebnhZevğf klZg-
 d_ , beb bkihevahZgb ihbgljmfZ ħðhðfh khèxZlv mklZğeg_
 fñ ihklhñklb .

Ib bkihevahZgb wedlhbgljmfZ ħðhðfh ipbfZlv fñ wed-
 lñhiZkñklb : ipfylv bgljmfğ k bkiZbc wedlħbaheypbc , bkihevah-
 Zlv aZafeg_ dhjmK , ihevahZlvky bğmZevgfb kñZfb aZsblu .

Zhq_ ihfsg_ ñeg ðlv hñiqğ kñZfb ihZhlmrby .

4.2 **h** **h** **h** **h**

h 15

<p>HibkZğ_ ihkeñlbc hldZ- ah\ b ihñc</p>	<p>kafhg_ ipqbg</p>	<p>MdZaZgy ih mklZğegx ih - keñlbc hldZah\ b ihñc kh - hqğc ħgpu</p>	<p>MdZaZgy ih mklZğx ihkeñlbc hl - dZah\ b ihñ - ñc</p>
<p>> \ b] Z I _ e v</p>			
<p>1 Ba ðimkdğc ljmñ bñ kbğc ñf</p>	<p>1.1 FZkeh \ dZ- fñ khZgy ih ipqbg bağkZ ihñgo dh- ep</p>	<p>1.1; 2.1 Dhñeb - jñcl_ žkoh^ fZkeZ ž mZj imlf mqlZ ñebZ fZkeZ ip LH ; hZlbl_ ħ - fZğ_ ž bğb\ - ğklv bafgy pñZ fZkeZ aZip - h^ žZñldb , mklZ ğegc ey aZf_- g fZkeZ. Flhñf bkdexq_ - gy ihñl_ bğ - lbnbdZpbx ħk - iZğklc ðZl_ - ey b lmñdhfik - khZ ih lZèbp_ (Iðehğ_ ?)</p>	<p>1.1 AZfbl_ ihñg_ dhev- pZ(i .4.2.1)</p>
<p>2 AZljmğ aZ imkd ðaey . K - ž ðZfbdZ ž - ñZ hñhlh\ ip mèbqğb ihZqb lhiebZ . Ba ðim - kdğc ljmñ bñ , ğuc ñf</p>	<p>2.1 GñklZlħq - žy llbq - ğklv \ dZfñ khZgy ip ih - kZd_ lZèhd deZiZğ\ \ keZ deZiZğ\</p>	<p>ğegc ey aZf_- g fZkeZ. Flhñf bkdexq_ - gy ihñl_ bğ - lbnbdZpbx ħk - iZğklc ðZl_ - ey b lmñdhfik - khZ ih lZèbp_ (Iðehğ_ ?)</p>	<p>ğfbl_ ðehdm pbebñ\ k ð - Zley b ðihe - bl_ ipbñdm deZiZğ\ , (i .4.2.2)</p>

Ihheg lZepu 15

<p>HibkZg_</p> <p>ihkeklbc hldZ-</p> <p>ah\ b ihbc</p>	<p>kafhg_</p> <p>ipqbg</p>	<p>MdZaZgy</p> <p>ih mklZhegx</p> <p>ihkeklbc hldZ-</p> <p>ah\ b ihbc</p> <p>khjqgc bpu</p>	<p>MdZaZgy</p> <p>ih mklZgx</p> <p>ihkeklbc hldZ-</p> <p>ah\ b ihbc</p>
<p>< h ^ y g c</p>			
<p>3.Lqv hoeZZx -</p> <p>sc bdklb q_</p> <p>ia Zg_ hl-</p> <p>klb_</p>	<p>3.1 Bagk lhph -</p> <p>hh miehlg</p>	<p>3.1 Dhhebjmcl_</p> <p>mhyg hoeZZx -</p> <p>sc bdklb \ kbk-</p> <p>lf_ hoeZgy ip</p> <p>LH</p>	<p>kfbl_ hygc</p> <p>zkhk k vZley ,</p> <p>Zabl_ zkhk</p> <p>(i .4.2.3)</p>
	<p>3.2 Bagk ih^ -</p> <p>rbigdhh ma</p> <p>eZ</p>	<p>3.1.1 Hkfhlp_ h -</p> <p>yg_ zkhk z Zh -</p> <p>lZxsf vZle_</p> <p>ihke_ aZimkdZ i_ -</p> <p>ph^ ihZ</p> <p>3.2 Ibehgf</p> <p>mkbebyd rdbm z -</p> <p>khkZZ zhZx -</p> <p>sf vZle_ ih -</p> <p>dhhebjmcl_ Zb -</p> <p>Zevgc exnl \</p> <p>ihrbigdhhf mae</p>	<p>AZfbl_ kZevgd</p> <p>hygh zkhkZ</p> <p>AZfbl_ ih^ -</p> <p>rbigdb , dhjmk</p> <p>hygh zkhkZ</p> <p>(ip hphbfh -</p> <p>klb)</p>
<p>4.Hlkmklml_ pbj -</p> <p>dmeypyhoeZ' -</p> <p>Zxsc bdklb</p> <p>\ kbklf_ hoeZ^ -</p> <p>gy vZley</p>	<p>IhZqbZg_</p> <p>djevqZldb z</p> <p>Zem zkhkZ</p>	<p>Ip dhhe_ lfi_ -</p> <p>Zlmgh pfZ</p> <p>kbklfu hoeZgy</p> <p>vZley ih mdZaZ</p> <p>lex lfiZlmj</p> <p>ZexZlky adbc</p> <p>hkl lfiZlmj</p> <p>hoeZZxsc b^ -</p> <p>dhklb</p>	<p>kfbl_ hygc</p> <p>zkhk k vZley ,</p> <p>Zabl_ hy -</p> <p>gc zkhk</p> <p>(i .4.2.3)</p> <p>AZfbl_ djev -</p> <p>qZldmb (beb) Ze</p> <p>zkhkZ</p>

4.2.1 **h** **h** **h** **h** **h**

h k vZley hehdm pbeb\ b fZkeygc ihhg . Himklbl_ ihj -
 rg \ bgx flmx lhqdm, ihhZqbZy jmqgx fZohbd vZley . Hqbkbl -
 l_ pgc ihyk bevau hl ZYZ , bkdexqb\ ip wlhf ihZZg_ \ pbeb qZklpb
 ZYZ .

G_ himkdZlky bkihevahZlv ip hqbkld_ klZevgc kdhd k pevz bkdex -
 qgy ihbc «adZeZ » bevau .

Hlpl_ Zcdb djegy djurdb rZlmz , kbfb_ djurdm rZlmz b ba-
 edbl_ ba pbebZ ihjg \ khj k rZlmgf . Ihjg k rZlmgf baedZcl_
 p \ klhgm mklZgdb hehdb .

GZ dZac ihjg bZley , \ khhlkbb k jkmgfh 30, mklZzebZ -
 xlky jg dhfikbbhg_ dhevph lZipbZevhg_ , hg dhfikbbhg_ dh-
 gkg_ dhevph b hg fZkehktfg_ dhevph dhjZlhh lbiZ k jmbgf Zkrb -
 blef . Dhfikbbhg_ dhevZ g lphc ihhgklb maZfdZ bfxl fZjb -
 jdm «p » b LHJ , dhlhzy ip mklZgd_ dhev heg jlv hZsg d g -
 sm ihjg . Kd Zkrbpl ey fZkehktfgh dhevZ g heg khZZlv k aZf-
 dhf dhevZ

AZfdb ihjgo dhev ZkiheZZcl_ g Zbf Zkklyhb ih hdjhgklb .
 klZvl_ ihjg krZlmhf \ pbeb , mklZhgbl_ djrdm rZlmZ .
 ey bkdexqby ihefhf ihjgo dhev ip mklZgd_ ihjg krZlmhf
 \ pbeb , bkihevamcl_ hiZdm ey hpfZ dhev .
 AZqg_ fhfZ aZlydb Zd djegy djrdb rZlmZ mdZaZh\ lZebp_
 (Ibehg =).

- 1 jg dhfikbbhg_ dhevph; 2 dhfikbbhg_ dhgkg_ dhevph;
- 3 fZkehktfg_ dhevph.

bkmgd 30 - kZ mklZgd ihjgo dhev

4.2.2 H h H

H Zcdb djegy klhd hkb dhjfuke b fhbjmcl_ hkv dhj -
 fuke k jmbZfb b dhjfukeZfb .

Hlhl_ helu djegy hehd , kfbf_ hehdm .

ZkkmoZyl_ deZiZg, kfbf_ lZedm jmbg deZiZZ , jmbg deZiZZ ,
 rZcl_ jmbg deZiZZ ; k lmedb Zizayxsc deZiZZ kfbf_ miehlglevnx
 fZhm .

IplbZlv deZiZg g kipb Zevgo klZgZo lbiZ HIJ -1841: beb g klZo
 HJ -6687F . GZnZkdb deZiZh\ beb g nZkdb h^ hehd pbeb\ Zklb iZk-
 lm, iphlhgnx ih hfm ba kefnxso khklZh\ :
 - dZp^ hZ F 40 - 10%; fbdhdhmg F 20 - 90%;

- wedlhdhjnđ akluc F 14 - 87%; iZznbg - 13%;
 KklZ\ žahŷl \ baevhf fZke_ h kflZghZahh khklhyby . ey ih -
 ūrby dZqklZ jhfŋlky hZeylv hebhmx beb klZbhmx bŋx
 dbkehlm.

Iplbjm ihheZcl_ h lo ihj , ihdZ ž nZkd_ deZiZž b ž nZkd_ kēZ
 deZiZž g ihyplky jūc fZlhuc ihykhd rbjgc g fg 1,5 ff , ža -
 jū ihehkd b beb žebqb_ jkhd g himkdZxlky . himkdZlky žahklv rbjg
 ihykdZ g he_ 0,5 ff .

Ihke_ iplbjb deZiZg b hehđm ihfulv .

Ib khđ_ hehđb klj deZiZž kfZaZlv fhlfhf fZkehf .

Iplbjm deZiZg\ hafhb ihbahđlv jnqmx , k ihfsvx kekZhh
 ipkihkhēgy , g ljhđdhklv hiZpbb iplbjb ip wlhf aZqblevg meb -
 qbZlky .

4.2.3 **h** **h** **h** **b** **h** **h**

4.2.3.1 **h** **h** **h** .

h žcdm 9 (pkmd 31) djeby rdbZ iphZ hŷgh žkhkZ.

K ihfsvx ktfgdZ kbfl_ rdb\ 7 hŷgh žkhkZ. Bađdbl_ ba dhjmkZ
 žkhkZ dhevph 12, klhijys_ ihfbigdhuc mae. kbfl_ djevqZldm 3 k žeZ
 žkhkZ 2, bkihevamy jvhh_ hlklb_ \ lhp_ djevqZldb (F 18x1,5), k ihfsvx
 kipbZevgh helZ .

uikmcl_ že k ihfbigdzfb ba dhjmkZ hŷgh žkhkZ. GZižeb_
 uikkh db - \ klhjn mklZhd b rdbZ . Kkmcl_ ihfbigdb k žeZ. kb -
 l_ dhevph mihg_ 13.

uikmcl_ kZevgd ba dhjmkZ žkhkZ.

žeb ihđlmcl_ .

1 dhjmk ; 2 žebd žkhkZ; 3 djevqZldZ ; 4 miehlg_ hŷgh žkhkZ SP/1341; 5 ih^ -
 rbigd ; 6 lmedZ; 7 rdb\ ; 8 rihgZ ; 9 žcdZ; 10 aZpmdZ; 11 rZcZ ; 12 dhevph klh -
 ihg_ ; 13 dhevph mihg_ .

4.2.3.2 ~~K~~ ~~H~~ ~~Z~~ .

~~M~~ ~~Z~~ Ze ~~Z~~khkZ dhevph mi~~h~~ 13, ~~Z~~ikkmc~~l~~ ihfbi~~g~~db , mklZ ~~g~~b\ ip wlhf f~~n~~ ihfbi~~g~~dZfb lmedm 6. AZi~~h~~e~~g~~l ihfbi~~g~~db b ihfbi - ~~g~~dhmx ihehklv kfZadh~~c~~ Eblhe 24-FEB 4/12-3 \ dhebq~~k~~l 45]. AZi~~h~~kkmc~~l~~ Ze k ihfbi~~g~~dZfb \ dhjmk ~~Z~~khkZ. MklZ~~g~~b~~l~~ dhevph 12, klhi~~h~~ys ihfbi~~g~~dh - ~~l~~c mae.

MklZ~~g~~b~~l~~ rdb\ ~~Z~~khkZ, rZc~~f~~n b Zcdm. =ZcdmaZly~~g~~nlv , h~~k~~i~~q~~b\ a~~Z~~q~~g~~ d~~j~~nl~~y~~sh fhf~~Z~~ 120 140G~~f~~.

Q~~a~~ hiZ~~d~~m ~~Z~~ikkmc~~l~~ mieh~~l~~g h~~y~~g~~h~~ ~~Z~~khkZ 4 ~~g~~nl~~g~~f dhjm - khf ~~Z~~ Ze h~~y~~g~~h~~ ~~Z~~khkZ b, h~~a~~l~~g~~ , a~~Z~~ikkmc~~l~~ ~~Z~~jm~~g~~f dhjmkhf mi- eh~~l~~gy \ dhjmk h~~y~~g~~h~~ ~~Z~~khkZ h mi~~h~~Z neZ~~g~~Z dhjmkZ mieh~~l~~gy \ ip~~Z~~ - ehq~~g~~x ih~~g~~klv dhjmkZ ~~Z~~khkZ, ip wlhf dh~~g~~l~~j~~nd~~l~~g~~g~~ bki~~h~~e~~g~~ hiZ~~d~~b ~~h~~e~~g~~ h~~k~~i~~q~~blv ~~Z~~ikk~~h~~d~~m~~ ~~g~~nl~~g~~ dhjmkZ mieh~~l~~gy lZdbf h~~Z~~ahf , q~~l~~h~~g~~ l~~h~~ph~~Z~~y ih~~g~~klv ~~g~~nl~~g~~ dhjmkZ ~~Z~~ki~~h~~e~~Z~~Z~~e~~Z~~k~~v ~~Z~~ ~~Z~~kk~~l~~hy~~g~~b 11,2-0,2 ff hl ip~~Z~~ehq~~g~~c ih~~g~~klv dhjmkZ ~~Z~~khkZ.

G~~Z~~ikkmc~~l~~ ~~Z~~ Ze d~~j~~evqZ~~d~~m . Mlhi~~Z~~g l~~h~~p~~Z~~ d~~j~~evqZ~~d~~b hl~~g~~kblev~~g~~ ip~~Z~~ehq~~g~~c iehkdh~~k~~l~~b~~ dhjmkZ ~~Z~~khkZ g ~~h~~e~~g~~ i~~j~~rZ~~l~~v 0,3ff , ~~l~~klmi~~Z~~g~~g~~ d~~j~~evqZ~~d~~b g ~~h~~imkdZ~~l~~ky .

MklZ~~g~~b~~l~~ h~~y~~g~~h~~ ~~Z~~khk ~~Z~~ ~~h~~Z~~l~~ev .

5 ~~D~~

~~h~~k~~i~~q~~g~~ ~~Z~~hl~~h~~kih~~k~~h~~g~~kl~~b~~ ~~h~~Z~~l~~ec , wd~~h~~g~~f~~bb fZ~~l~~pZev~~g~~ b ~~g~~o k~~l~~\ ~~Z~~ bo f~~h~~g b ih~~l~~h~~d~~m d ~~Z~~hl ~~g~~ph~~h~~fh kl~~h~~ kh~~e~~x - Z~~l~~v i~~Z~~beZ o~~Z~~g~~g~~ ~~h~~Z~~l~~ec \ ~~Z~~h~~q~~ ~~l~~y .

Mkeh~~g~~ o~~Z~~g~~g~~ ~~h~~aev ~~Z~~lh~~Z~~ 2 (K) ih =HK 15150-69.

~~h~~aev -~~Z~~lh~~j~~ b ihkl~~Z~~e~~y~~f~~h~~ k ~~g~~f h~~h~~jm~~h~~Z~~g~~ o~~Z~~g~~l~~v \ kmohf aZ d~~j~~l~~h~~f , oh~~h~~rh ~~h~~eb~~j~~m~~f~~h~~f~~ ihf~~s~~g~~b~~ ip k~~h~~h~~c~~ ~~e~~Z~~g~~kl~~b~~ ~~h~~amoz g ~~h~~e_ 80 % ip 15°K.

~~h~~imkdZ~~l~~ky o~~Z~~g~~g~~ ~~h~~aev ~~Z~~lh~~Z~~ \ ihf~~s~~g~~b~~ , dZ~~d~~\ aZ~~h~~kd~~h~~c miZ dh~~d~~ , lZ~~d~~ b ~~h~~ g , k mklZ~~g~~dh~~c~~ ~~Z~~ h~~k~~g~~Z~~g~~g~~ ysb~~d~~Z beb ~~Z~~ kip~~b~~Zev~~g~~x ih^ - klZ~~d~~m.

Ihf~~s~~g~~g~~ ~~h~~e~~g~~ ~~l~~lv ba~~h~~eb~~h~~Z~~g~~f hl ih~~g~~d~~h~~gy iZ~~h~~\ b ~~Z~~ah\ , kih~~k~~h~~g~~o ~~u~~aZ~~l~~v dh~~h~~abx lZ~~ec~~ . G~~g~~ ~~h~~imkdZ~~l~~ky o~~Z~~g~~l~~v ~~h~~aev - ~~Z~~lh~~j~~ \ ~~h~~h~~f~~ ihf~~s~~g~~b~~ k fZ~~l~~pZez~~f~~b b h~~h~~jm~~h~~Z~~g~~f , kih~~k~~h~~g~~fb ~~u~~aZ~~l~~v dh~~h~~abx (dbke~~h~~lu , seh~~q~~b , obf~~d~~Z~~l~~u , Zddm~~f~~mey~~l~~h~~j~~ b l.^).

Hk~~f~~h~~j~~ ~~h~~aev ~~Z~~lh~~Z~~ b ~~h~~ h~~h~~jm~~h~~Z~~g~~y ip o~~Z~~g~~g~~ ~~h~~e~~g~~ ih~~h~~a - ~~h~~blv~~ky~~ g ~~j~~ h~~h~~h~~h~~ ~~Z~~aZ \ ~~Z~~ f~~k~~ypZ . Ip wlhf ~~g~~ph~~h~~fh ih~~y~~lv :

- pe~~h~~kl~~g~~klv dh~~g~~Z~~p~~b~~h~~g~~c~~ kfZadb ~~Z~~ ~~Z~~jm~~g~~o ih~~g~~kl~~y~~o ba~~e~~by ;
- ~~Z~~eb~~q~~b~~g~~ dh~~h~~abb ;
- pe~~h~~kl~~g~~klv aZ~~f~~m~~r~~d \ f~~k~~lZ~~o~~ ~~g~~bo ih~~k~~h~~h~~g~~c~~ .

H~~Z~~jm~~g~~x dh~~h~~abx ke~~m~~l mZ~~e~~blv ~~Z~~Z~~q~~g~~c~~ ~~h~~nfZ~~h~~c , kf~~h~~q~~g~~c \ fZ~~k~~e_ , ZaZ~~q~~bs~~g~~ f~~k~~lh ih~~l~~lv ~~Z~~kmoh b ih~~d~~lv dh~~g~~Z~~p~~b~~h~~g~~c~~ kfZadh~~c~~.

K~~d~~ o~~Z~~g~~g~~ - 12 f~~k~~yp\ .

Ih bkl~~q~~bb k~~h~~dZ ~~c~~kl~~g~~y dh~~g~~Z~~p~~bb , mdZaZ~~g~~h \ iZ~~k~~ih~~j~~ , ke~~m~~l ih~~h~~ak~~l~~b ih~~h~~g~~Z~~p~~b~~x ~~h~~aev -~~Z~~lh~~Z~~ b ~~h~~ h~~h~~jm~~h~~Z~~g~~y . ~~h~~imkdZ~~l~~ky ih~~h~~eblev~~g~~ o~~Z~~g~~g~~ (g ~~h~~e_ l~~p~~ f~~k~~yp\) ~~h~~aev ~~Z~~lh~~Z~~ (~~h~~ dhf -

iedlZ ABI) \ miZdhđ_ aZhZ -bahlhbley ž kipbZevġc iehsZđ_ ih^ ž\ - khf .

6 ■

b lZgihjbhZgb bZlec žjng_ hklby ħeg ūlv aZđi - lu aZĉmrdZfb .

LZgihjbhZgb_ bZlec ħeg hkiqblv bo aZsblm hl ħaĉklby eZb b foZbqkdbo ihĉ ih mkehbyf oZby 2 (K) =HK 15150-69.

Zafsb_ b djeb_ bZlec ip lZgihjbhZgb \ aZđjluo ' - eahhġo žhzo ħeg khhlklhZlv lhZbyf Lobqkdbo mkehbc ihġnadb b djeby ġmah\ , FIK , 1969], ZlZd' lZbeZf ihadb ġn - ah\ , baZlevklh LZgihj , FhkđZ , 1977] .

IhġnadZ , žafsb_ , djeb_ , mdjulb_ b žaġnadZ ip lZgihjbhZ - gb Zlhfhĉevgf lZgihjhf ħeg khhlklhZlv lZbeZf ihadb ġmah\ Zlhfhĉevgf lZgihjhf , mlġf Fbġklklhf Zlhfhĉev - ġh lZgihjZ KK 30 bxy 1971] .

7 ■

■ g khđl skl\ , iklZeyxsbo hiZkġklv ey baġ , ah - ġvy exĉ b hdġnZxsc kġ .

Ip mlbebaZpbb bZley ihke_ hdhgZby kġdZ kemġ (wdkiemZlZpbb) g - hġhġfh :

- keblv fZkeh ba kbklfu kfZadb b hliZblv h \ mklZġġf ihjđ_ ž ihlhġx iZġldm ;

- keblv ba kbklfu hoeZby hoeZZxsmx bđhklv (keb hZ bkihevah - ZeZkv ip wdkiemZlZpbb bZley) b ihfklblv _ \ iZaZqg_ ey oZg - by fdhklb ;

- iġbaklb ihġnx žaġđm bZley ž lZeb , žkkhjbhZ\ bo ž klZevg_ , qmġng_ , Zexfbġ_ , ba plgo b žhpgo flZeeh\ , ġbg b ieZklfZkku b hliZblv \ mklZġġf ihjđ_ ž ihlhġx iZġldm .

Ip iġb lobqkdhh hġembZby b ldmsġ ġhZ bZley ihEZsb_ aZfg (ip ġġhġfhklb) lZeb b kġġqg_ bġpu hliZblv ž ihlhġx iZġldm , žahZ\ ip wlhf kġġqg_ bġpu ž lZeb b žk - khjbhZ\ bo ih fZlZbeZf .

Iþehb : ()
 Offi Z

LZ : 1

Gh-fj ihab - pbb	GZbfhZb , bqk khjqgc þþpu (nmg - pbhZevg aZdhg qg mkljckl - h , foZgaf , mae lgy)	Dhebq_- klh khjq - go þ - gp \ ba- ebb , rl	GZbfhZb b hþazqg fZhd =K				FZkkZ (hff) =K , aZ iZey_ - fuo \ ba- eb_ ip kfg (ih - ihegb) , d] (^ f)	l _ j b-h þq - gklv kfg (ihihe - gy) =K , q	IþfgZb_
			H k g h \ g u _	mþbjnxs_b	þg_	AZjnþ_			
1	;Zd lhiebq_ (mklZþebZlky Z idg_ b klZpbhZg_ b wedlhZylu b wedlhklZgbb)	1	Lhiebh þaevg_ , loþqkdb_ mkehþy dhlhþh khhlklm - xl lhZþyf K; 1658-2006 k kh- þbf kj g h - e_ 350 f] /d] (0,035%) khjZ (ey mfhþ debfZIZ) beb deZkkZ (ey Zjllbqkdhh b oehþh debfZIZ) \ khhlklbb k lfi_ - Zlmhc hdjmZxsc kj Z fkl_ wdk iemZIZpbb þZley	G_ bflky	G_ bflky	Lhiebh þ - aevg_ , lo - þqkdb_ mk ehþy dhlhþ - h khhlkl - mxl lhZ - þyf G 590:2004 k kh- þbf kj g he_ 350 f] /d] (0,035%)		himkdZlky ipfg - g_ lhiebZ k khþ - þf kj , g iþ - rZxsbf iþvnx þfm , mklZþevg ey þaec mhþ Tier 2 (þjllbZ 97/68/K (ll klmig) b lþb eZ WD HHG 96(01) h 2]/d] (0,2%)	

l j b f _ q Z g b _

> e m f i g o iebZ ip lfiZlmj hdjmZxsc kj (K'':
 þ j l h f g n l k y i þ f g l v k h j h - Z j l l b q k d h h b þ i h f g n l k y i þ f g l v d e Z k k h -
 ebZ ip lfiZlmj hdjmZxsc kj (K'':

L _ fi _ j Z l (K) Z h (g þ'_)	+5	0	-5	-10	-15	-20
K h j lhiebZ	A	B	C	D	E	F

LfiZlmZ (K'') h (g þ'_)	-20	-26	-32	-38	-44
D e Z k k	0	1	2	3	4

K _ a h g þ h _ þaevgo lhieb\ \ kimþbd_ ;eZjnk v \ aZþkbfhklb hl lfiZlmj hdjmZxsc kj

E _ l g þ c		A þ þ	
K h j k		K K	
> 10" K (g þ'_)		h -5" K (g þ'_)	
K1 fZy ih 30 kþy (5 fk) - ih khþZkhZþx k ihþlef		K 1 Ziþy ih 30 hdlyþ (7 fk)	
		K 1 þyþ ih 31 fZjZ (5 fk)	

Iphēb IZēbpū : .1

Gh-fj ihab-pbb	GZbfhZg, bdk khqhc ēbpū (nmg - pbhZevg aZdhg- qg mklhckl - h, foZgaf, mae lgy)	Dheb-qklh kh - hqqgo ēbp ba^ - ebb, rl	GZbfhZg b hāzqg fZhd =K				FZkkZ (hff) =K, aZ iZey - fuo \ ba-ēb ip kfg (ih-ihēbb), d] (^ f)	l_j b-h ēq - hklv kfg (ihhe - lgy) =K, q	IpfqZg
			H k g h \ g u _	mēbjnxs_b	āg	AZjng			
2	DZj fZkey-gc *	1	Elhf (mklhcqbZy lfiZlmZ hdjnZxsh hāmoZ ūr_ iexk 5" K)				11,1 (12,5)	250	Ib dhfiedlZpbb fZk-eygf dZjhf 240-1401015-: 2 I j b f _ g _ g f b h g o fZke \ aZbkbfhkklb hl mkehpc wdkiemZIZ pbb: Z elh (iexk 5 ūK b ūr_) SAE 30; SAE 10W-40(30); SAE15W-40 (30); SAE 20W-40 (30) [) abfZ (fbgk 10 ūKb ūr_) SAE 20; SAE 10W-40 (30) \) abfZ (fbgk 20 ūKb ūr_) SAE 10W-20 (30, 40); SAE 5W-30 (40)]) abfZ (b_ fbgk 20 ūK SAE 5W-30 (40); SAE 0W-30 (40)
			F Z k ēhZg «G:NL:G A » SAE 10W-40, SAE 15W-40, SAE 20W-50 LMBY 300042199.010-2009, «Emdhce :Zj » SAE 10W-40, SAE 15W-40, «Emdhce :Zj Wdk Iz » SAE 10W-40, SAE 15W-40	G_ bflky	G_ bflky	Castrol Turbomax SAE 15W-40, Hessol Turbo Diesel SAE 15W-40, Essolube XD-3 + Multiqrate, Teboil Super NPD (power), Royal Triton QLT (U 76), Neste Turbo LE, Mobil Delvac 1400 Super, Ursa Super TD (Texaco), Shell Rimula LX SAE 10W-30, SAE 15W-40, Shell Rimula Plus SAE 10W-30, SAE 15W-40			
			A b f hāhlcqbZy lfiZlmZ hdjnZxsh hāmoZ b' iexk 5" K)						
			F Z k ēhZg «G:NL:G A » SAE 10W-40 LMBY 300042199.010-2009, «Emdhce :Zj Mevl- Z » SAE 5W-40	G_ bflky	G_ bflky	Shell Rimula Ultra SAE 10W-40, Shell Helix Diesel Ultra SAE 5W-40, Hessol Turbo Diesel SAE 15W-40			

* k_fhlhg fZkeZ, ihg \ Zgc obffhlhehēqkdhc dZj, hēg khhlklhZlv deZkkZf CF-4, CG-4, CH-4, CI-4 ih deZkkbnbdZpbb API b ? 3-96, 4-99, 5-02 ih deZkkbnbdZpbb :K

Ihheg lZebpu : .1

Ghfj ihab - pbb	GZbfhZg_ ,bg- dk khjqc d - epu (nmgpbhzev - g aZdhgg_ mkl- jcklh ,foZgaf , mae lgy)	Dhebqkl - h khjq - go d - gp \ ba- ebb ,rl	GZbfhZg_ b hhaZqg_ fZhd =K				FZkkZ (hf - f)=K ,aZ- iZeyfuo \ baeb_ ip kfg (ih - ihegb), d] (f ³)	Iphdqgklv kfg (ihiheg - gy)=K ,q	IpfqZg_
			H k g h \ g u	mfbjxsb_	dg_	AZjng_			
3	Lhiebgc Zkhk \khdh Zegy	1	FZkeh fhlg_ lh ' ,qlh b \ dZji baey				0,22 (0,25)		Ib mklZgd_ ghh beb hlj - fhghZgh ZkhkZ
4	Ihng hamoh - hqbklbley	1	Izplevg_	ihnbevlg_	hlZhlZg_	b hklhyky	1,3 (1,5)- >-246.1 2,2(2,5)- >-246.2, >- 246.3, >-246.4	125 (ihZ mh\ - g b khklygy fZkeZ)	AZfg_ fZkeZ ihbahlv ip ghghfklb (\ kemqZ_aZyag - gy)
5	kygc Zkhk (ihfbidhZy ihhklv)	1	ZadZ Eblhe -24-FE b4/12-3 =HK 21150-87	G_bflky		Alvania, Shell (:gby)	0,045 (0,05)	HhZahZy	< ihpkk_ wdk iemZlZpbb ihihe - gy kfZadb g lfnky

Ihheg LZebpu : .1

Ghfj ihab - pbb	GZbfhZb_ , bg- dk khhqbc b - epu (nmqpbhZev - g aZdhgg mkl- hcklh , foZbaf , mae lgy)	Dhebqkl - h khjq - go b - gp \ ba- ebb , rl	GZbfhZb_ b hhaZqb_ fZhd =K				FZkkZ (hf - f) =K , aZ iZeyfuo \ baeb_ ip kfg (ih - ihegb) , dj (f ³)	Iphbqgklv kfg (ihiheg - gy) =K , q	IpfqZb_
			H k g h \ g u _	mfbjnx - sb_	Aj - g_	AZjmg_			
5	Hff kbklfu hoeZby (h ZbZihZ b khbblevgo iZljndh\)	1	<p>hkhkv hoeZZxsZy gadhaZ - faZxsZy «Lhkhe abgdbc LK-40», (h fbgk 40°K) «Lhkhe abgdbc LK-65» (h fbgk 65°K) ihbahRIZ HHH «Lhkhe-ka », j abgd , N LM2422-050-36732629-2003</p> <p>hkhkv hoeZZxsZy gadhaZ - faZxsZy H@-40 (h fbgk 40° K), ihbahRIZ H:H «Ekhob - fbd », j. :hpkh\ , J =HK 28084- 89</p> <p>hkhkv hoeZZxsZy gadhaZ - faZxsZy «Kmj -Ibmf » H@-40 (h fbgk 40°K), H@-65 (h fbgk 65°K) LM2422-054-52470175-2006 ihbahRIZ H:H «Kmj -Gnlobf » , j. abgd , N</p> <p>hkhkv hoeZZxsZy gadhaZ - faZxsZy «Lzkhe:FI 40» (h fbgk 40°K) LMBY 101083712.009-2005 ihbahRIZ MI «=hfevobflhj » , j. =hfev , J</p> <p>hkhkv hoeZZxsZy gadhaZ - faZxsZy «CoolStandart» (h fbgk 40°K) LM2422-002-13331543-2004 ih - bahRIZ H:H «Lognhf » j. Debfhk d , N</p>	HoeZZx - sZy bdkhkv H@-40 (h fbgk 40°) H@-65 (h fbgk 65°) =HK 28084- 89	G_bf_- lky	MIL-F-5559 (BS 150) (K:) FL-3 Sort S-735 (:gby)	13,4 (12,5)	Hdg Za \ Z hZ	
<p>l j b f _ q Z ghyaZlevZ ihjZ ihlblef hoeZZxsbo bdkhlc ih vhgfm dhghex .</p>									

Ibehg ; (AB (AB))

LZ ;.1 AZiZkg_ qZklb

Hhazqg_ aZiZkbc qZklb	Dh^ ihndpbb	GZbfhZg_ aZiZkbc qZklb	Fklh md eZdb	Ipfghklv	Dhebqklh ,rl		IpfqZg_
					\ baebb	\ dhfiedl_	
50-1404059-; 1	47 5341 8601	IjdeZdZ dheiZdZ	LD-10:	240-1404010-:	1	1	

L Z [e b; pZ Bklmfg b ipZehklb

Hhazqg_ bklmfg , ip - Zehklb	Dh^ ihndpbb	GZbfhZg_ bklmfg , ipZehklb	Dhebqklh \ dhfiedl_	IpfqZg_
50-3901034	47 5341 2815	IeZklbZ 0,25o100	1	ey baec >-246.2,
60-3901034	47 5341 3054	IeZklbZ 0,45o100	1	>-246.3, >-246.4
50-3901034	47 5341 2815	IeZklbZ 0,25o100	1	ey >-246.1

Ipehg < ()

~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~

LZ <.1

FZjbbhdZ jmi	bZflj bevau , ff	bZflj xdb ihjg , ff
;	110 ^{0.06} _{0.04}	110 ^{0.06} _{0.08}
K	110 ^{0.04} _{0.02}	110 ^{0.08} _{0.10}
F	110 ^{0.02}	110 ^{0.10} _{0.12}

<dhfiedl ž hbg bZlev ihbZxl ihjg , rZlmg b ihjg
 iZevpu hždhč khč jmiu , Zakh rZlmg\ \ dhfiedl_ k ihjgfb g
 heg iurZlv 30].

Ghfbževg ~~h~~ ~~h~~ ~~h~~ ~~h~~ ~~h~~ dhegZlh ž

LZžbpZ <.2

Hhazqg hfb -	> b Z f _rcdb žeZ , ff	
žeZ deZŭrc	dhč	rZlmč
1G	75,25 ^{0.082} _{0.101}	68,25 ^{0.077} _{0.096}
2G	75,00 ^{0.082} _{0.101}	68,00 ^{0.077} _{0.096}

D h j _ g gburZlmg_ rcd b b deZŭrb ihfbgdh\ dhegZlh žeZ
 bahZebZxlky ņo hfbževgo žafh\ .
 DhegZlu_ žeu , rZlmg_ b dhg_ rcd b dhlhjo bahlhžg ih
 žafm lhjh hfbžeZ , bfxl ž ihc sd ņiheglevg hhažqg :
 «2D» - dhg_ rcd b lhjh hfbžeZ ;
 «2R » - rZlmg_ rcd b lhjh hfbžeZ ;
 «2DR » - dhg_ b rZlmg_ rcd b lhjh hfbžeZ .

Ibehb = ()

LZēbpZ <.1

GZbfhZb	BbpZ bafj - by	AZqb
1 Zēb fZkeZ \ kbklf (ē ihj - lhf bae) ip hfbēevhc qZklhl Zsby dhegZlhh ZeZ	FIZ	0,25 - 0,35
2 dhfmfZy lfiZlmZ hoeZ' - Zxsc bdklb (liehc hf)	qK	85-95
3 Ihb[fy hbeylhZ ip mkb ebb 40 G (4 dk) ē lb , Zkihehg - hc fm rdbZfb ZlhZ b dh- egZlhh ZeZ :	ff	15-22
4 AZahjfm hcdhf dhjfukeZ b lhphf klē deZiZē ē ihj - lhf bae ēy imkdgo b \imkdgo deZiZē :	ff	Klp i . 3.2.15
6MklZghqgc mhe hij by iju - kdZlhibZ h FL ēy :	Z^	Klp lZēbpm 13
7 Zēb ēqZeZ ijkdZ lhiebZ	FIZ	25,0...26,2 24,0
8 Fhfē aZlydb hkggo avhuo khēbc :	Gf	
- helh\ dhgo ihfbihdh\		200-220
- Zd helh\ rZlmgo ihfbihdh\		180-200
- helh\ djeby hehd bpebh\		190-210
- helh\ djeby fZohbdZ		180-200
- helh\ djeby ihlbhkZ		120-140
- helh\ djeby nhkmgd		20-25
- helh\ rdbZ dhegZlhh ZeZ		240-270
- ZcdZ dheiZdZ phhh fZkey-		35-50
hh nbevlyZ		

GZbfhZb_	fbgZ bafby	AZqby iZZflh\ éy baec :				
		>246.1			>-246.2	
		L h i e b \ g g k k				
		776.1111005/W W2	4MLGW- 1111007-100	PP4M10P1f 4204; 4218(«MOTORPAL», Qoby)	776.1111005/WW 2	4MLGW-1111007- 100
1. Ky pbdehZy ihZqZ lhiebZ ih eb- byi ukhdhh Zebz ip qZklhl_ Z - sby 100 fbg	ff †/pbde	150				
2. GhfbZevZy qZklhlZysby dmeZqdh hh ZeZ	fbg ¹	750	730	750		730
3. Ky pbdehZy ihZqZ lhiebZ ip hfbZevhc qZklhl_ \ j Z s _ g b y	ff †/pbde	99-2,0	107,5-2,5	58÷80	99-2,0	107,5-2,5
4. GZbfhklv ihZqb lhiebZ ip hfbZevhc qZklhl_ \ j Z s _ g b y h e _	%	6				
5. QZklhlZysby ip ZqZe_ ckly j_ h e y l j h	f b g ¹	-	140 ¹⁰	-	-	140 ¹⁰
6. QZklhlZysby , khhlklmxsZy ihelhm ZlhZlbaqdhfm hldexqbx lhiebhihZqb j_ h e y h j h f g h e _	fbg ¹	810		800	810	
7. Ky pbdehZy ihZqZ lhiebZ ip qZklhl_ Zsby (fbg ¹):	ff †/pbde					
		- 700	127-3,0	-	127-3,0	-
		-725			70÷82	

IpfqZb_ : h e b h d m b i h m lhiebgo Zkhkh\ ukhdhh Zebz ihbahlv lhevdh \ kipbZebabhZgo
fZklkdbo Z afhllhgo klzo k dhfiedlhf klhuo nhkmgd b ljhijhh\ , khhlklmxsbo lhZbyf aZ
hh\ -bahllhplec lhiebgo Zkhkh\ .

LZēbpZ >.2 iZZfli lhibgo žkhkh\ ip ihil ž klē .

GZbfhZb	DgpZ bafy	Ažqby iZZfli\ éy baec :		
		>246.3		>-246.4
		Lhib\gžkk		
		776.1111005-01/WW2	776.1111005-01/WW2	PP4M10P1f 4205 («MOTORPAL», Qoby)
1. Ky pbdehZy ihZqZ lhibZ ih eb- byf ūkhdh Zēgy ip qZklhl_ ž - sby 100 fbg	ff †/pbde	150		
2. Ghfbževžy qZklhlZžsby dmeZqdh hh ZeZ	fbg ¹	750		
3. Ky pbdehZy ihZqZ lhibZ ip hfbževhc qZklhl_ \ j Z s _ g b y	ff †/pbde	129-2	93-115	
4. Gžfhklv ihZqb lhibZ ip hfbževhc qZklhl_ \ j Z s _ g b y he_	%	6		
6. QZklhlZžsby , khhlklmxsZy ihēfm ZlfZlbqkdhfm hldexqbx lhibhZqb j_ hē y ljh f g hē_	fbg ¹	810	800	
7. Ky pbdehZy ihZqZ lhibZ ip qZklhl_ žsby (fbg ¹):	ff †/pbde	152-3		
- 700				
-725				108÷120

I j b f _ q Z g b hēhdm b ihim lhibgo žkhkh\ ūkhdh Zēgy ihbahlv lhevdh \ kipbZebabhZgo
fZklkdbo ž afhlggo klžo k dhfiedlf klhvo nhkmgd b ljhjh\ , khhlklmxsbo lhžbyf aZh -
h\ -bahhlec lhibgo žkhkh\ .

LZēbpZ >.3 iZzflj lhibgo žkxkh\ ip ihl ž klē .

GZbfhZg	DēpZ bafy	AZqby iZzflj\ ēy baec :			
		>246.1	>-246.2	>-246.3	>-246.4
		L h i e b \ g z k k			
		PP4M10P1f-4204; PP4M10P1f-4204-10; -20	PP4M10P1f-4244; PP4M10P1f-4244-10; -20	PP4M10P1f-4245; PP4M10P1f-4245-10; -20	PP4M10P1f-4205; PP4M10P1f-4205-10; -20
1. Ky pbdehZy ihZqZ lhi - ebZ ih ebyf ukhdh Ze - by ip qZklhl_ Zsby 100 fbg	ff †/pbde	150			
2. GhfbZevZy qZklhlZ Zsby d ne Z q d h ZēZ h	fbg ¹	750			
3. K y p b d e h i h Z q Z l h i - ebZ ip hfbZevhc qZklhl_ \ j Z s _ g b y	ff †/pbde	80-2	96-2	106-2	130-2
4. GZbfhklv ihZqb lhi - ebZ ip hfbZevhc qZklhl_ \ j Z s _ g b y h e _	%	6			
5. QZklhlZ Zsby ip ZqZe_ ēklby j _ re y ljh	f b g ¹	730 ⁵			
6. QZklhlZ Zsby , khllkl - mxsZy iheghm ZlfZlbaqdh - fm hldexqbx lhibhZqb j _ re y ljh f g h e _	fbg ¹	785			
7. Ky pbdehZy ihZqZ lhi - ebZ ip qZklhl_ Zsby () - 720	ff †/pbde	96-3	113-3	123-3	150-3

l j b f _ q Z g h e b h d m b i h d m l h i e b g o ž k x k h \ u k h d h Z e g y i h b a h d l v l h e v d h \ k i p b Z e b a h Z g o
fZklkdbo ž afhlhgo klzo k dhfiedlhf klhuo nhjmgd b ljmihhh\ , khllklmxsbo lhZgyf
aZhh\ -bahhblec lhibgo žkxkh\ .

Hhazqby LG∞ :

- PP4M10P1f-..... LG∞ ā wedlhfZplZ hklZgZ ;
- PP4M10P1f-....-10 - LG∞ k wedlhfZplhf hklZgZ WF-19 (12 <);
- PP4M10P1f-.....-20 - LG∞ k wedlhfZplhf hklZgZ WF-19-01 (24 <);

Ipehg_ @ (M)
KZ H H

1 jif - hel ; 2 ljk (piv); 3 ZedZ ; 4 aZoZl ;

Bkmgd 35 KZ kljhdb VZley

AB0=0	> 2?@>A0<	?@>406	8 ?>45@68	>1@00ELAO.	
0B5@8=1C@3	+7(7172)727-132	>3-3@04	(844)2780348	>50	(473)2045
@0A=>0@A	(343)3845589	070=L	(843)2060148	@0A=>40@	
>2>A818@A	(391)2046361	>A20	(485)2680470	=886	>23>@>4
D=B5B5@1C@3	(383)2278673	>AB>2=0>C	(863)335		D<0@0
>AA8Q,	(812)3094640	D@0B>2	(845)28938	#D0	(347)22
070EAB0=	8 4@C385	AB@0=K	! 4>AB020	>9 N1	3>@>
48+49	04@5A	40 2AE	m@000=>2	.iu	
08B	www	.mmz	.rht	.iu	